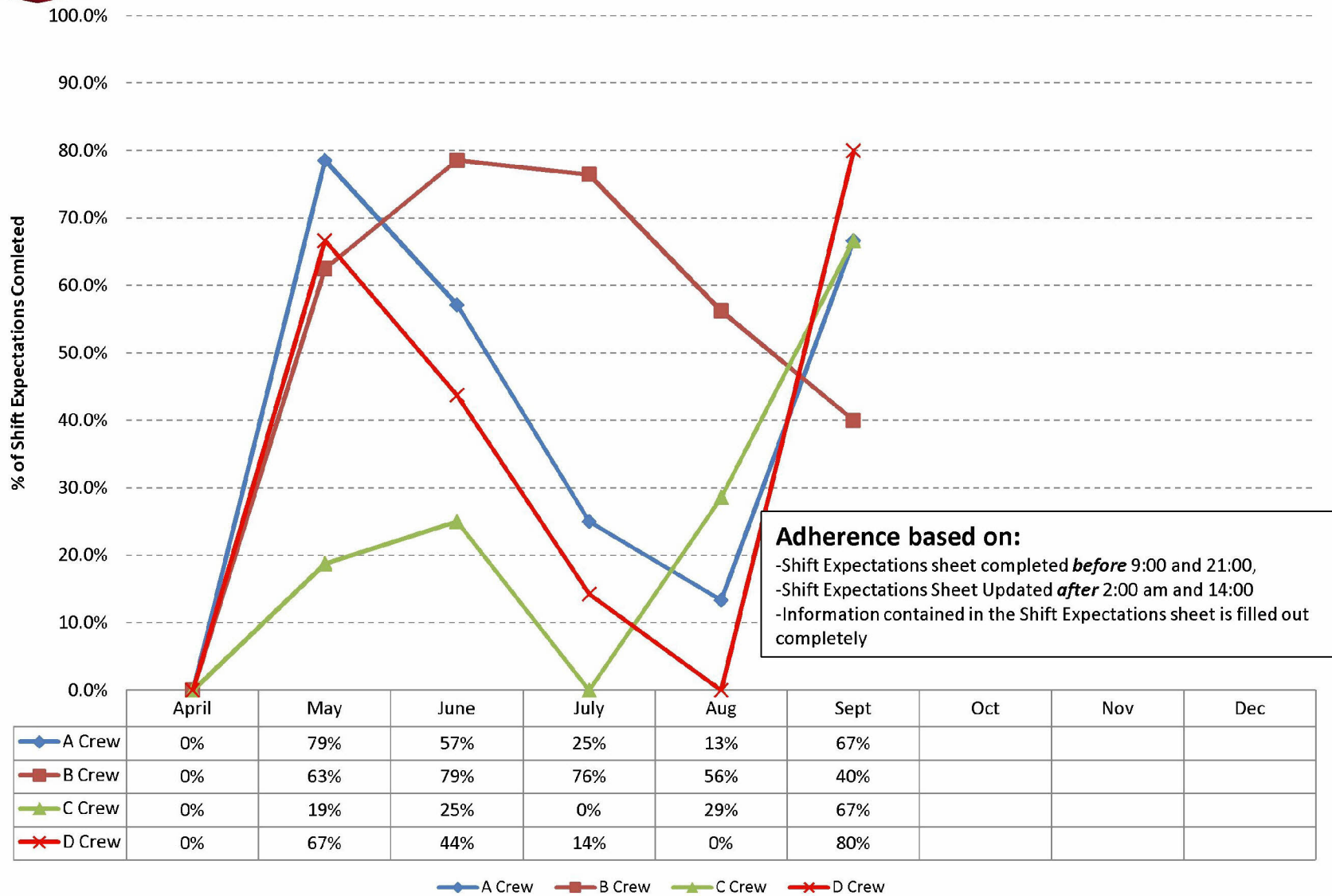




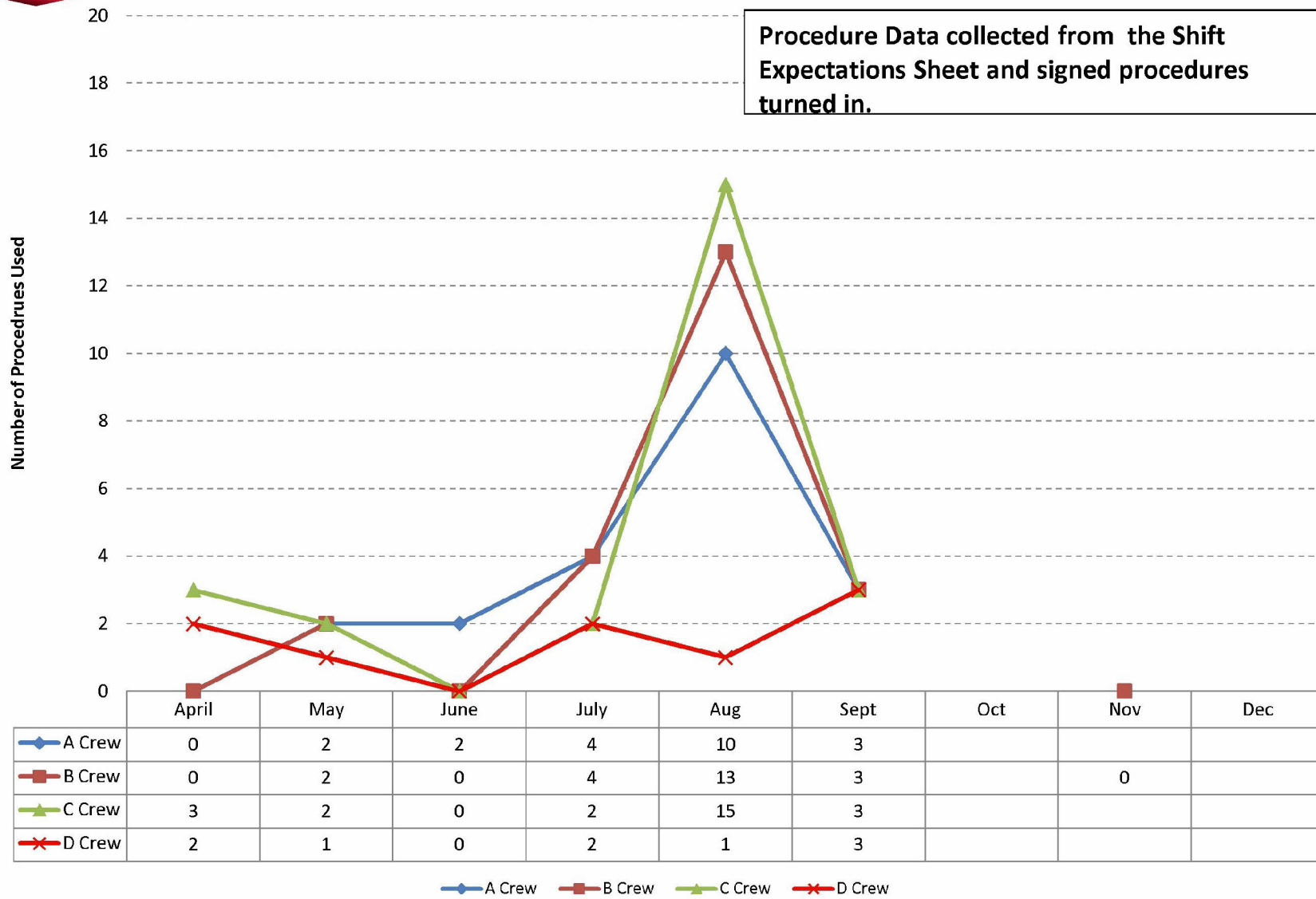
Crew Management: Hydro





Procedure Usage: Hydro

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

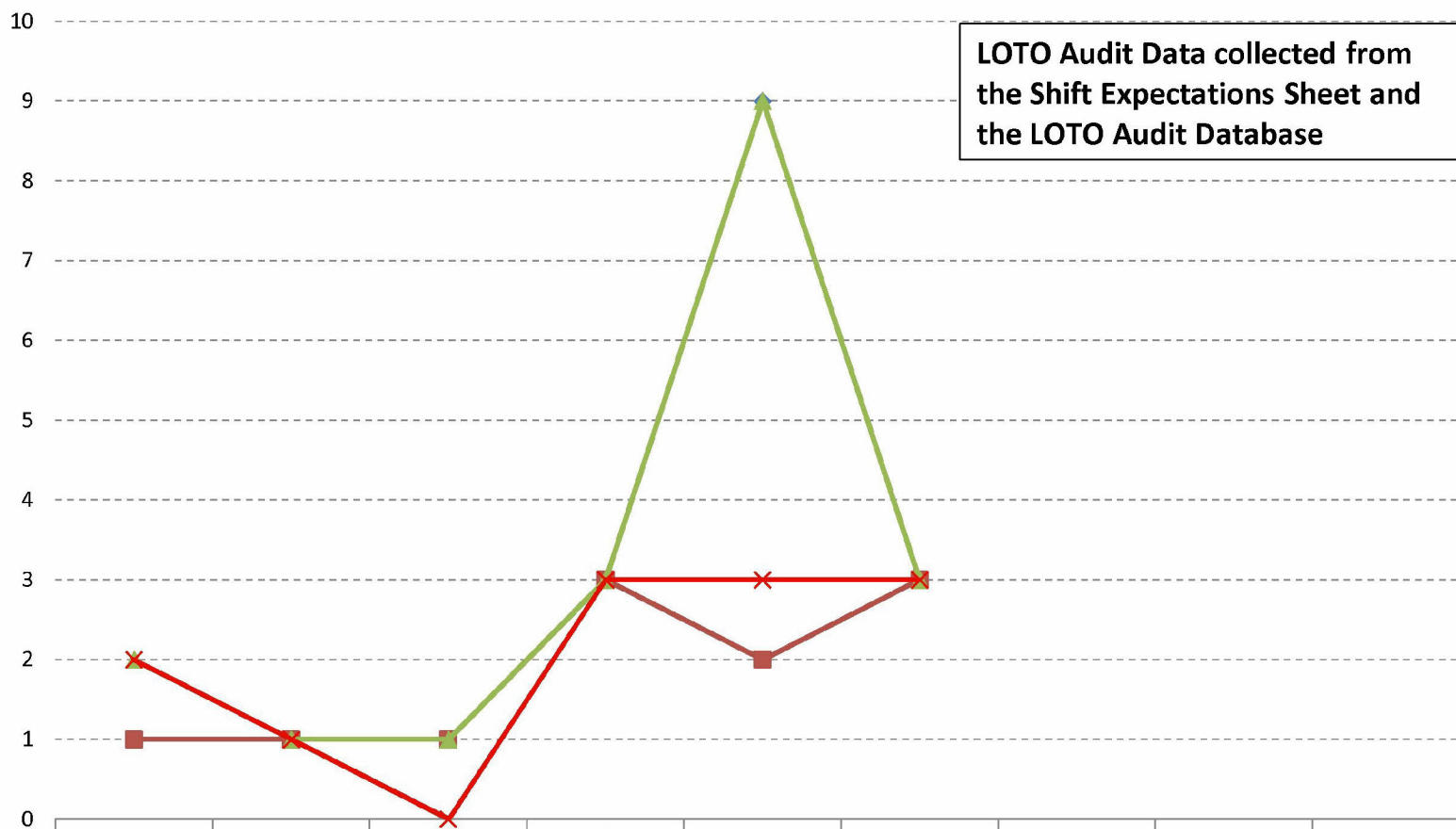




LOTO Audits: Hydro

LOTO Audit Data collected from the Shift Expectations Sheet and the LOTO Audit Database

Number of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	1	1	1	3	9	3			
B Crew	1	1	1	3	2	3			
C Crew	2	1	1	3	9	3			
D Crew	2	1	0	3	3	3			

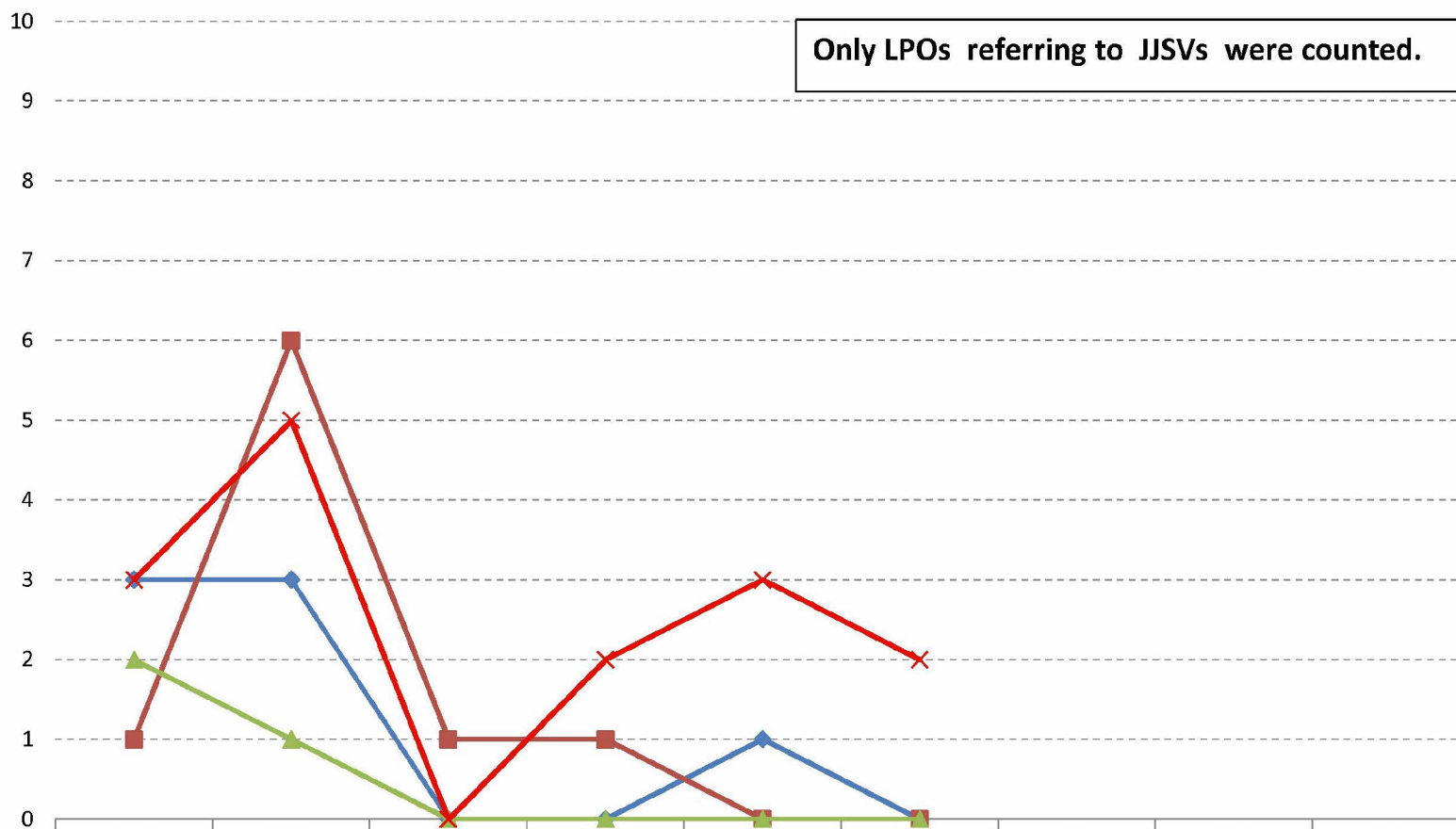
A Crew B Crew C Crew D Crew



JJSV LPOs Completed: Hydro

Only LPOs referring to JJSVs were counted.

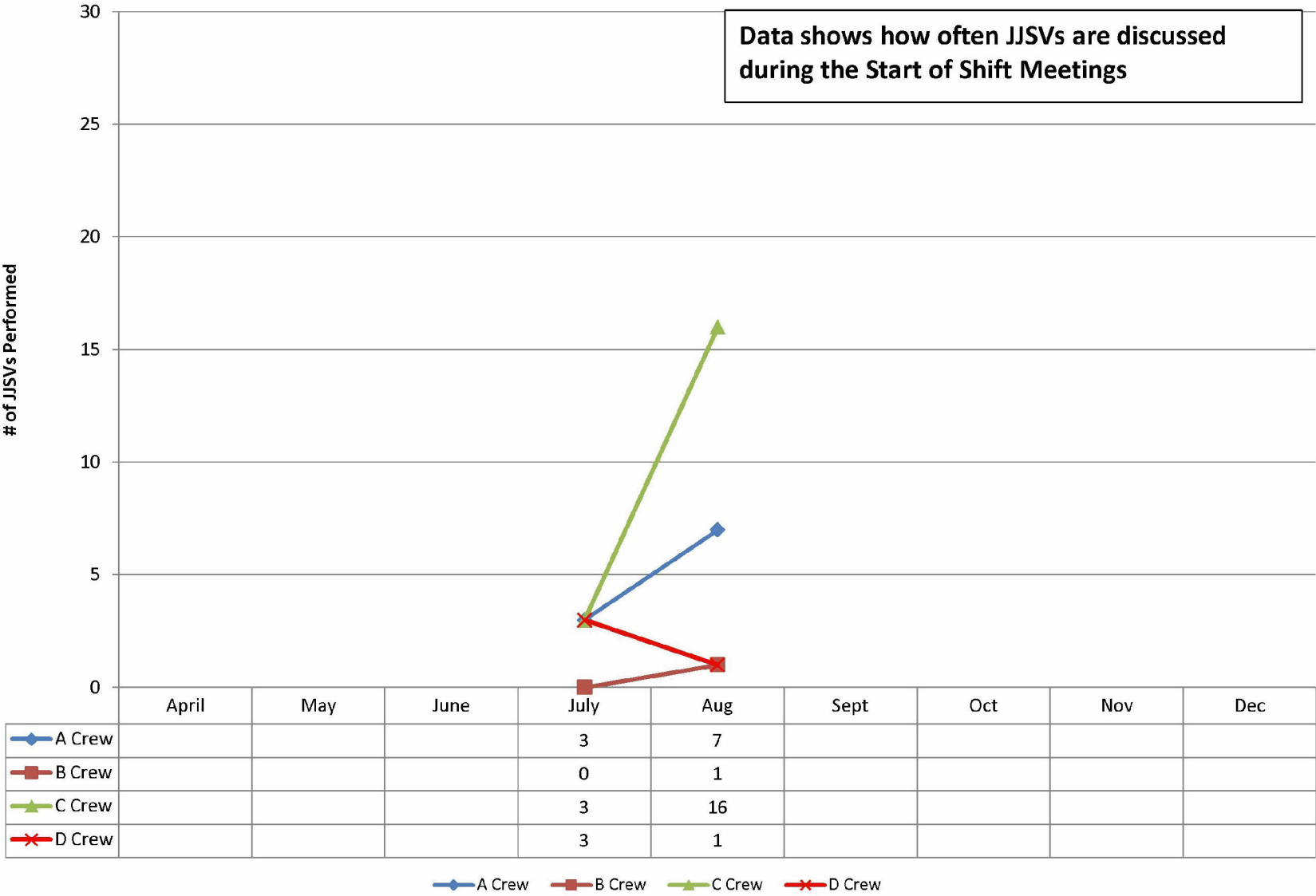
Number of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	3	3	0	0	1	0			
B Crew	1	6	1	1	0	0			
C Crew	2	1	0	0	0	0			
D Crew	3	5	0	2	3	2			

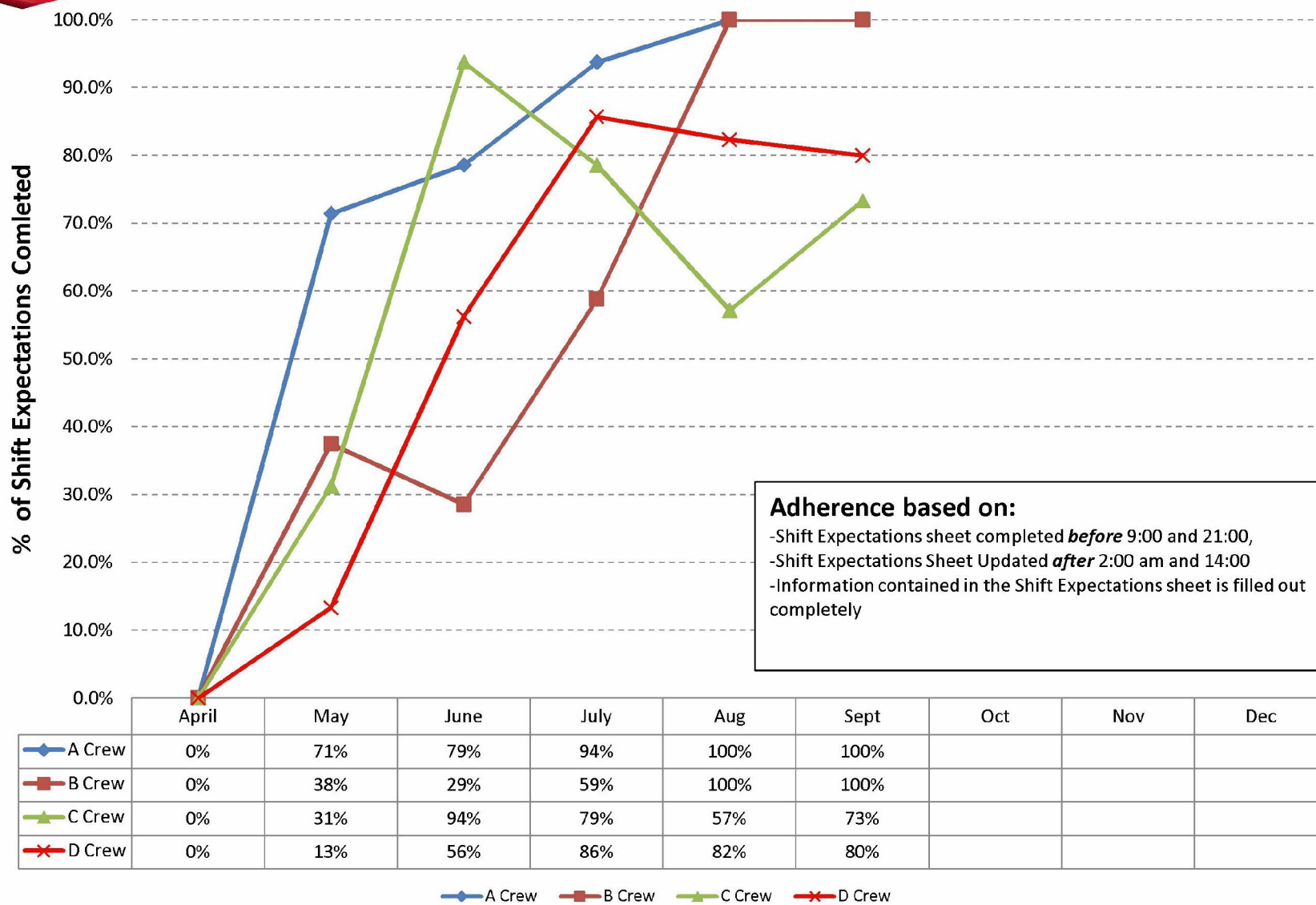
A Crew B Crew C Crew D Crew

JJSVs Discussed During Start of Shift Meeting: Hydro





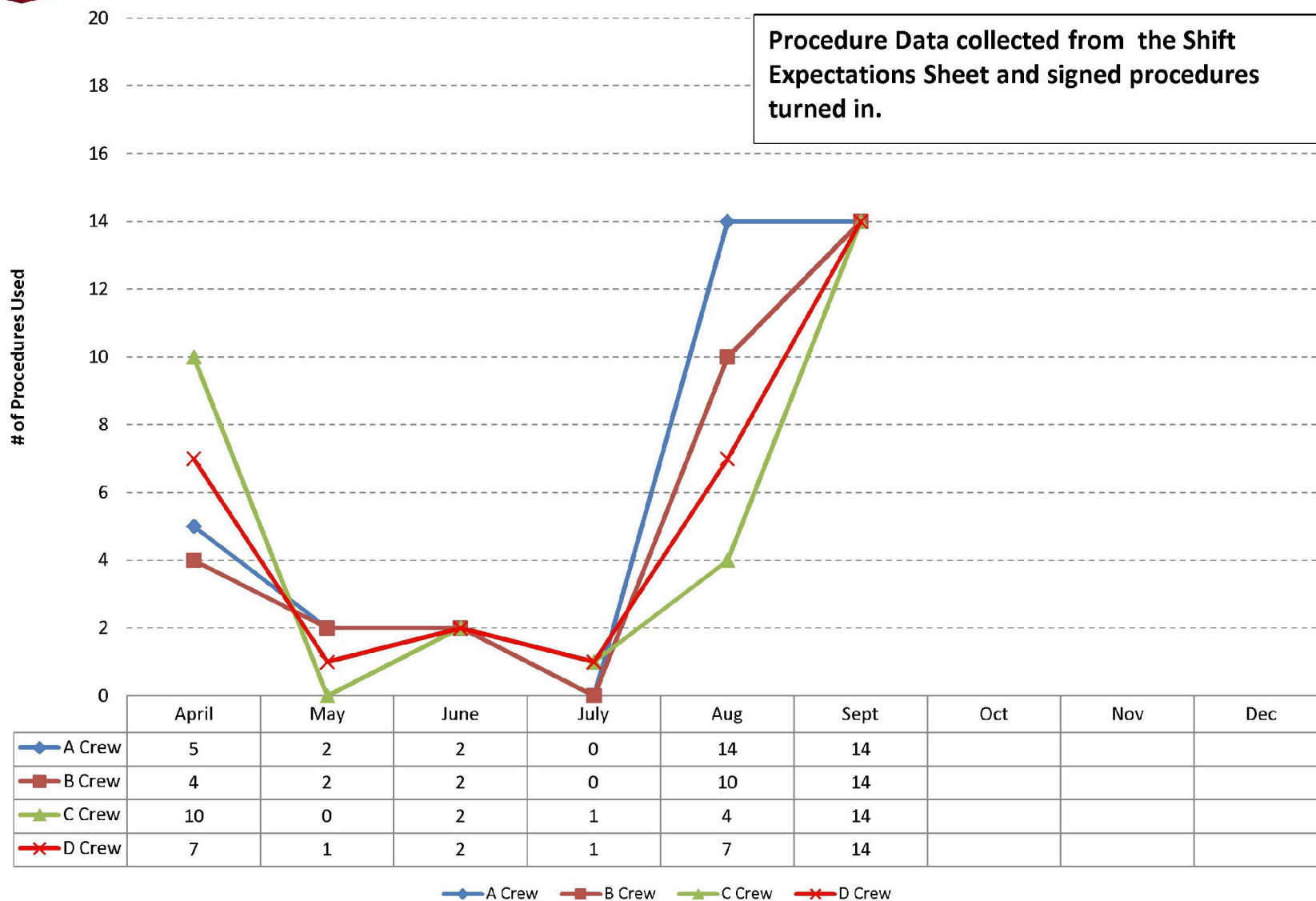
Crew Management: Cracking





Procedures Used: Cracking

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

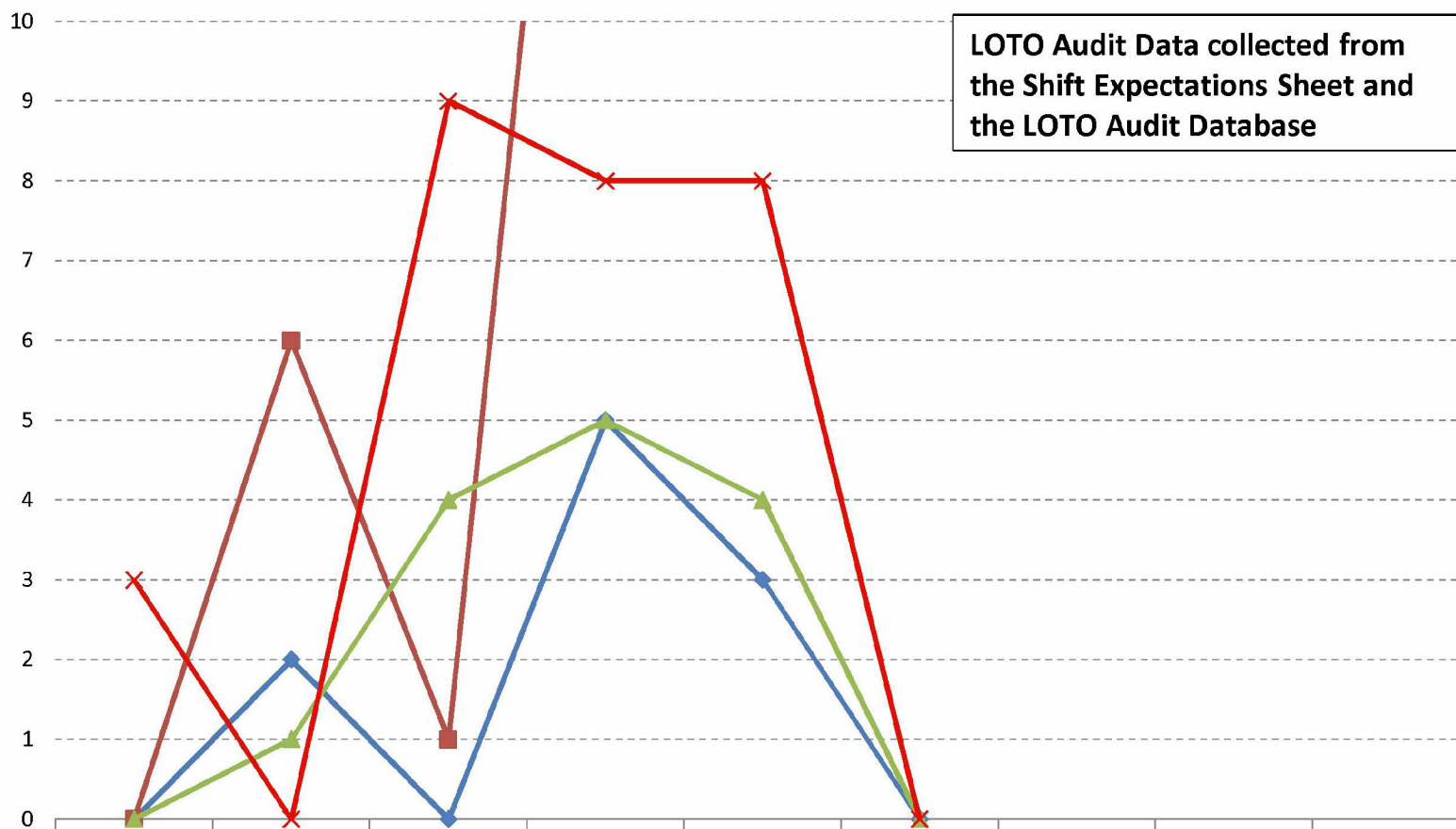




LOTO Audits: Cracking

LOTO Audit Data collected from the Shift Expectations Sheet and the LOTO Audit Database

Of LOTO Audits Completed



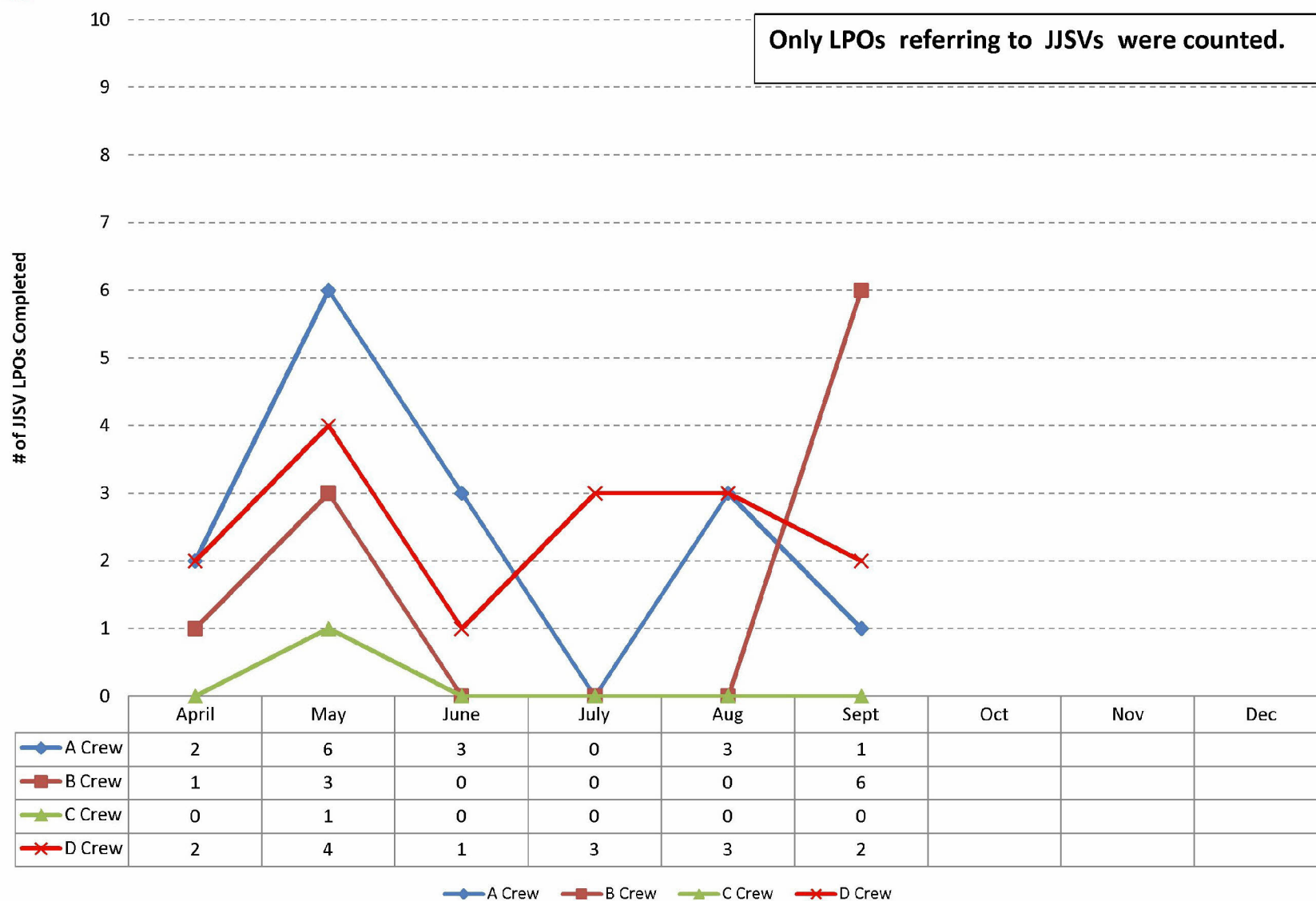
	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	0	2	0	5	3	0			
B Crew	0	6	1	20	12	11			
C Crew	0	1	4	5	4	0			
D Crew	3	0	9	8	8	0			

A Crew B Crew C Crew D Crew



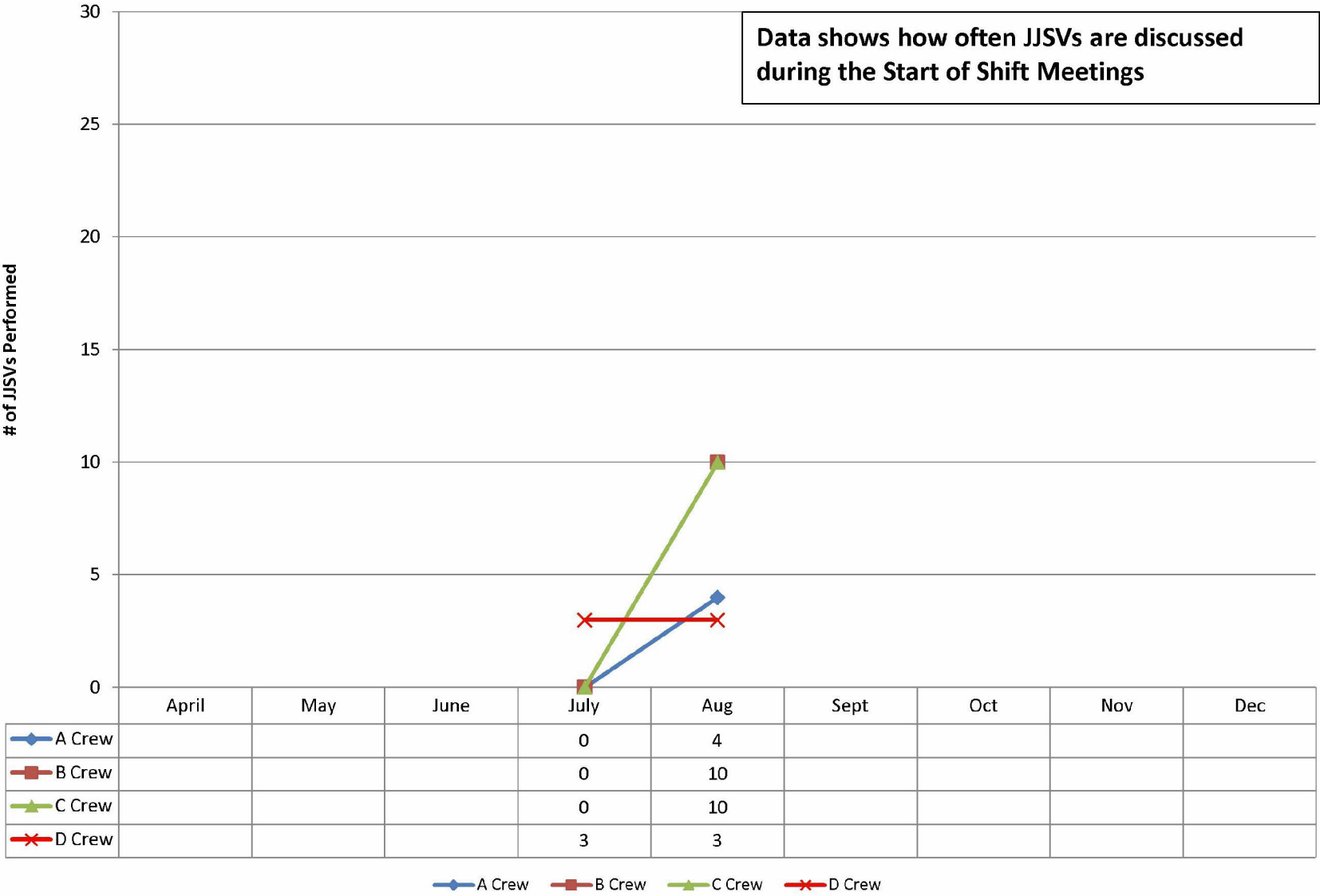
JJSV/LOTO LPOs Completed: Cracking

Only LPOs referring to JJSVs were counted.



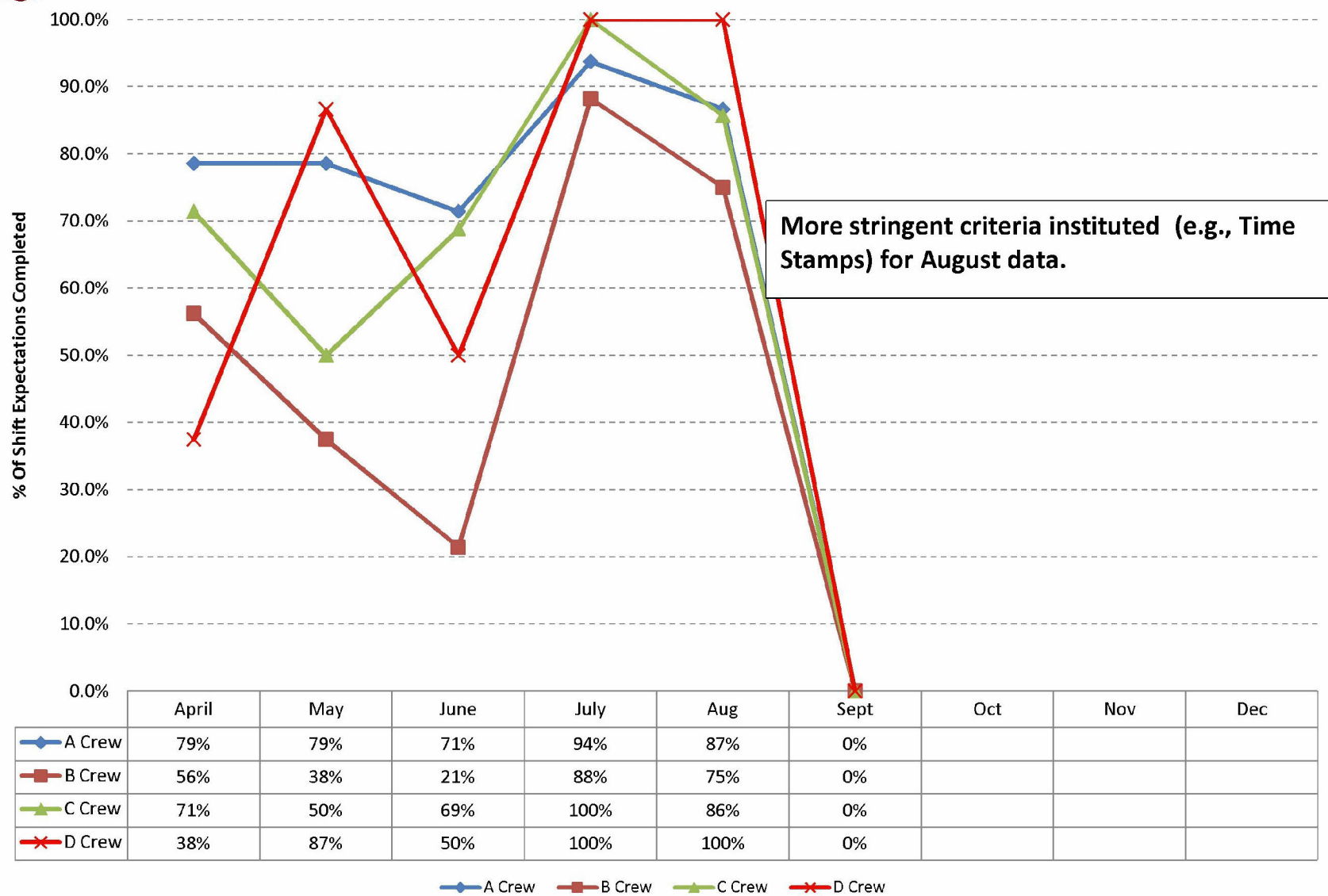
JJSVs Discussed During Start of Shift Meeting: Cracking

Data shows how often JJSVs are discussed during the Start of Shift Meetings





Crew Management: Utilities





Procedures Used: Utilities

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

of Procedures Used

20
18
16
14
12
10
8
6
4
2
0

	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	0	0	0	0	0	0			
B Crew	0	0	0	0	0	0			
C Crew	0	0	0	0	0	0			
D Crew	0	0	0	0	0	0			

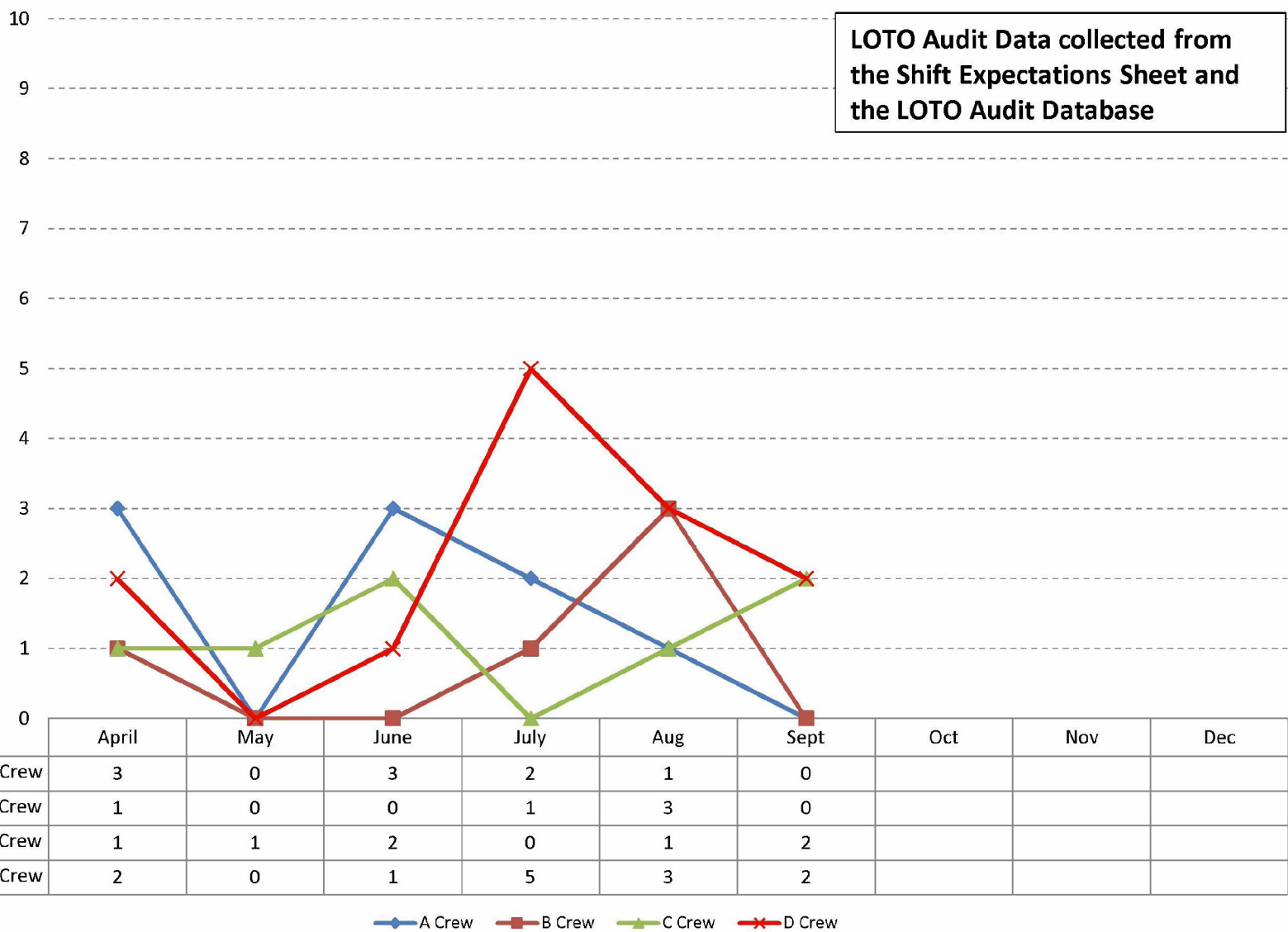
A Crew B Crew C Crew D Crew



LOTO Audits: Utilities

LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database

Of LOTO Audits Completed

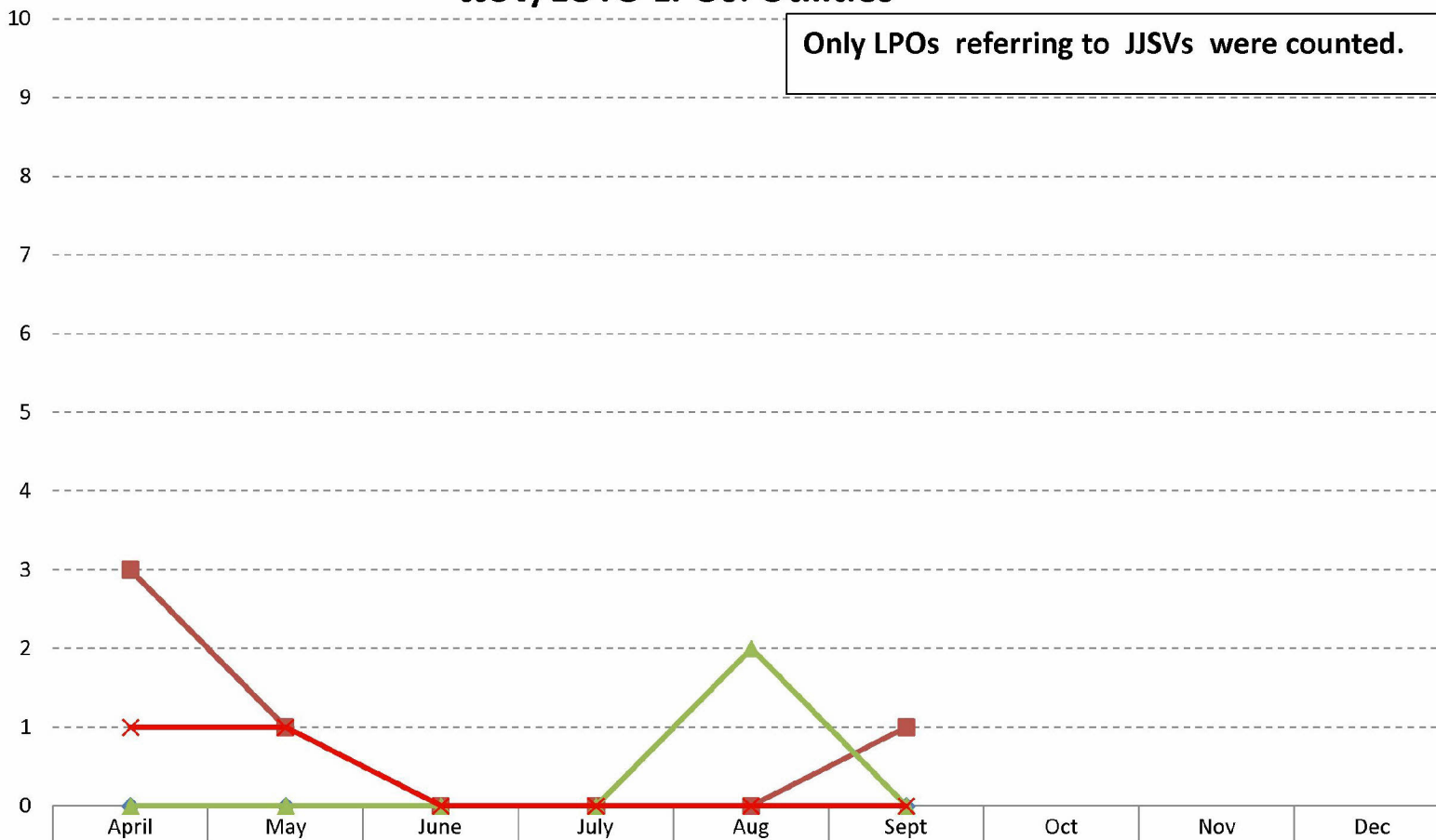




JJSV/LOTO LPOs: Utilities

Only LPOs referring to JJSVs were counted.

of JJSV LPOs Completed

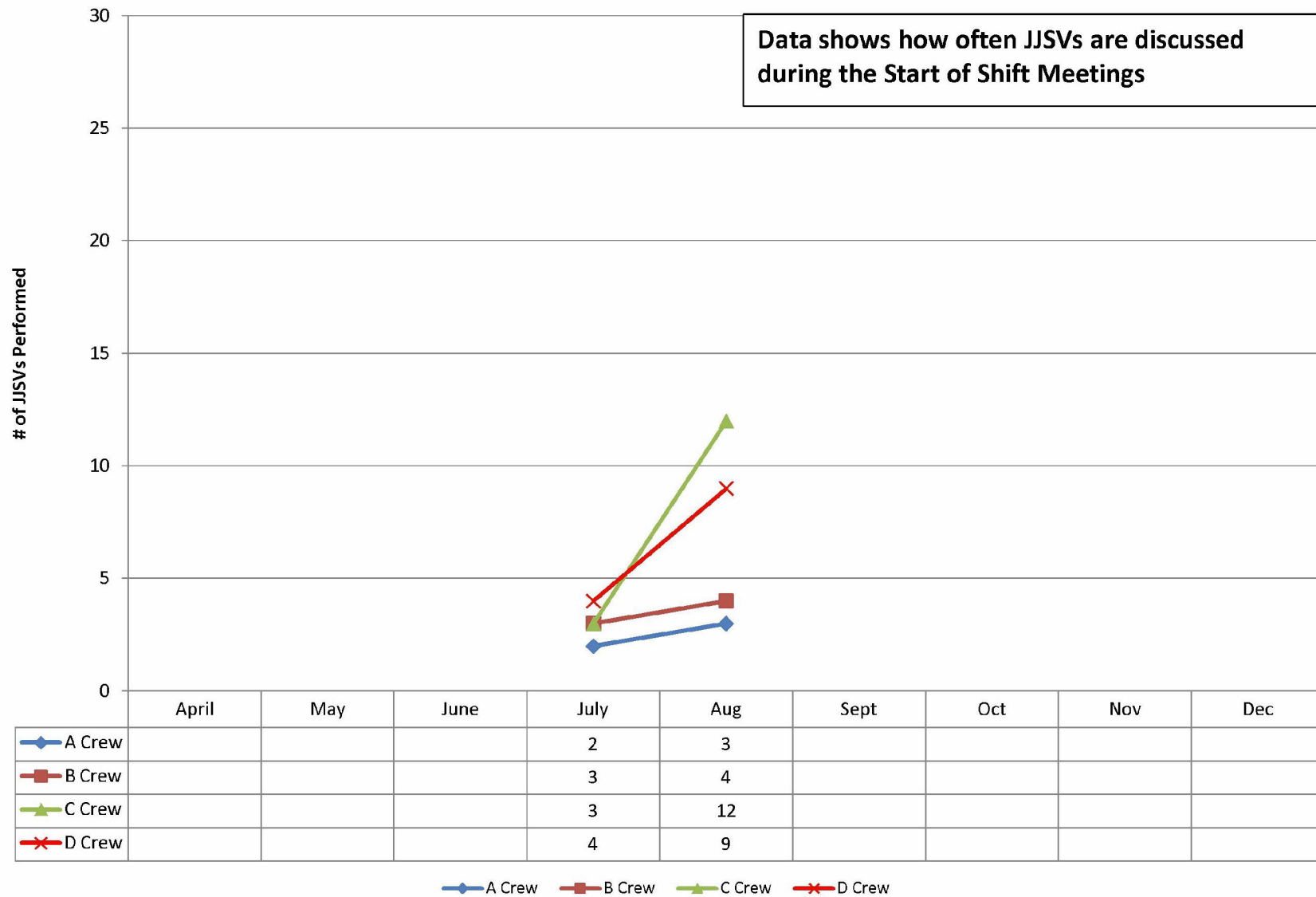


A Crew	0	0	0	0	0	0			
B Crew	3	1	0	0	0	1			
C Crew	0	0	0	0	2	0			
D Crew	1	1	0	0	0	0			

A Crew B Crew C Crew D Crew

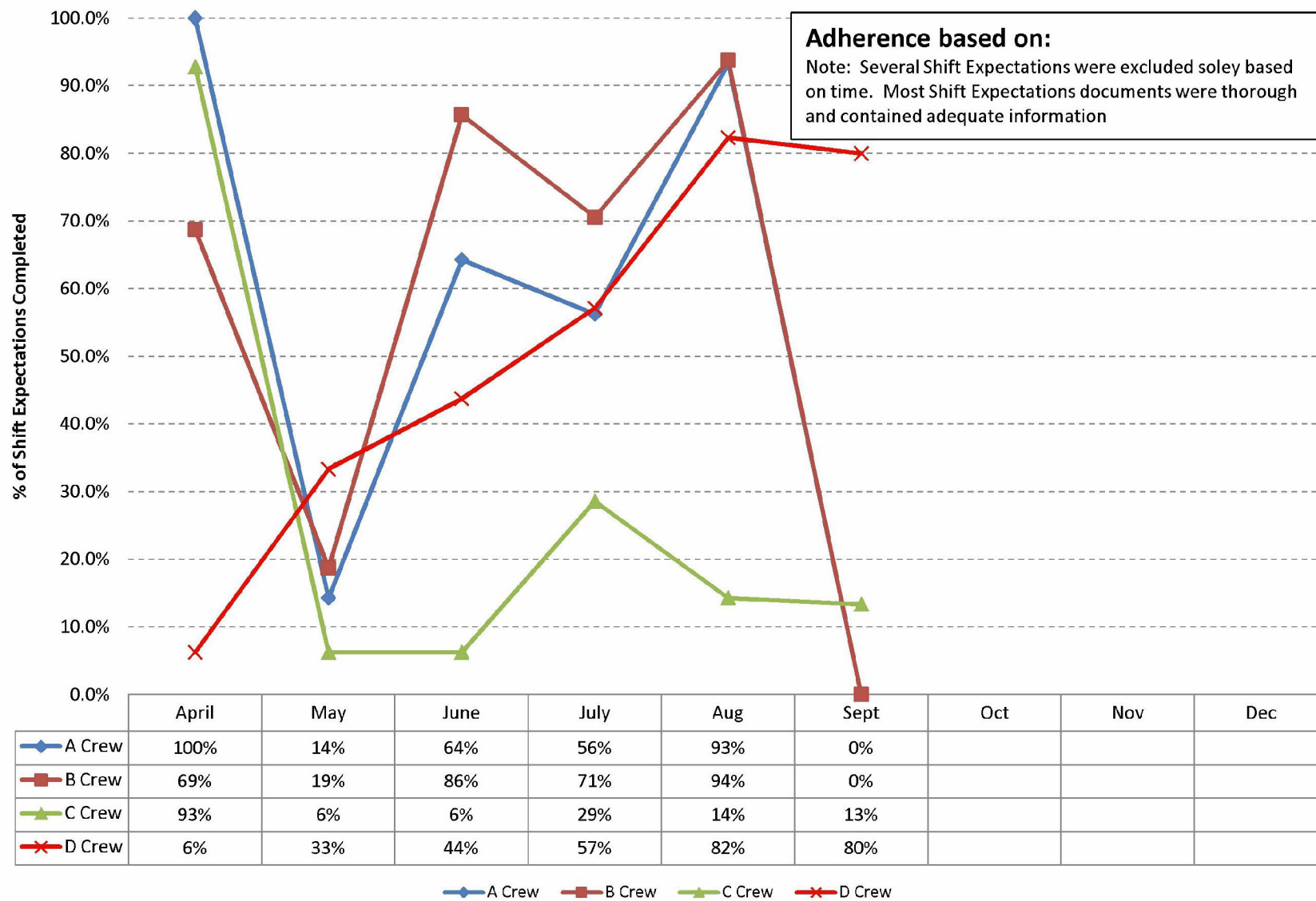
JJSVs Discussed During Start of Shift Meeting: Utilities

Data shows how often JJSVs are discussed during the Start of Shift Meetings





Crew Management: Blending/Shipping





Procedures Used: Blending/Shipping

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

of Procedures Used

20
18
16
14
12
10
8
6
4
2
0

	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	10	1	0	0	0	0			
B Crew	5	3	0	0	0	0			
C Crew	7	0	0	0	0	0			
D Crew	1	1	0	0	0	0			

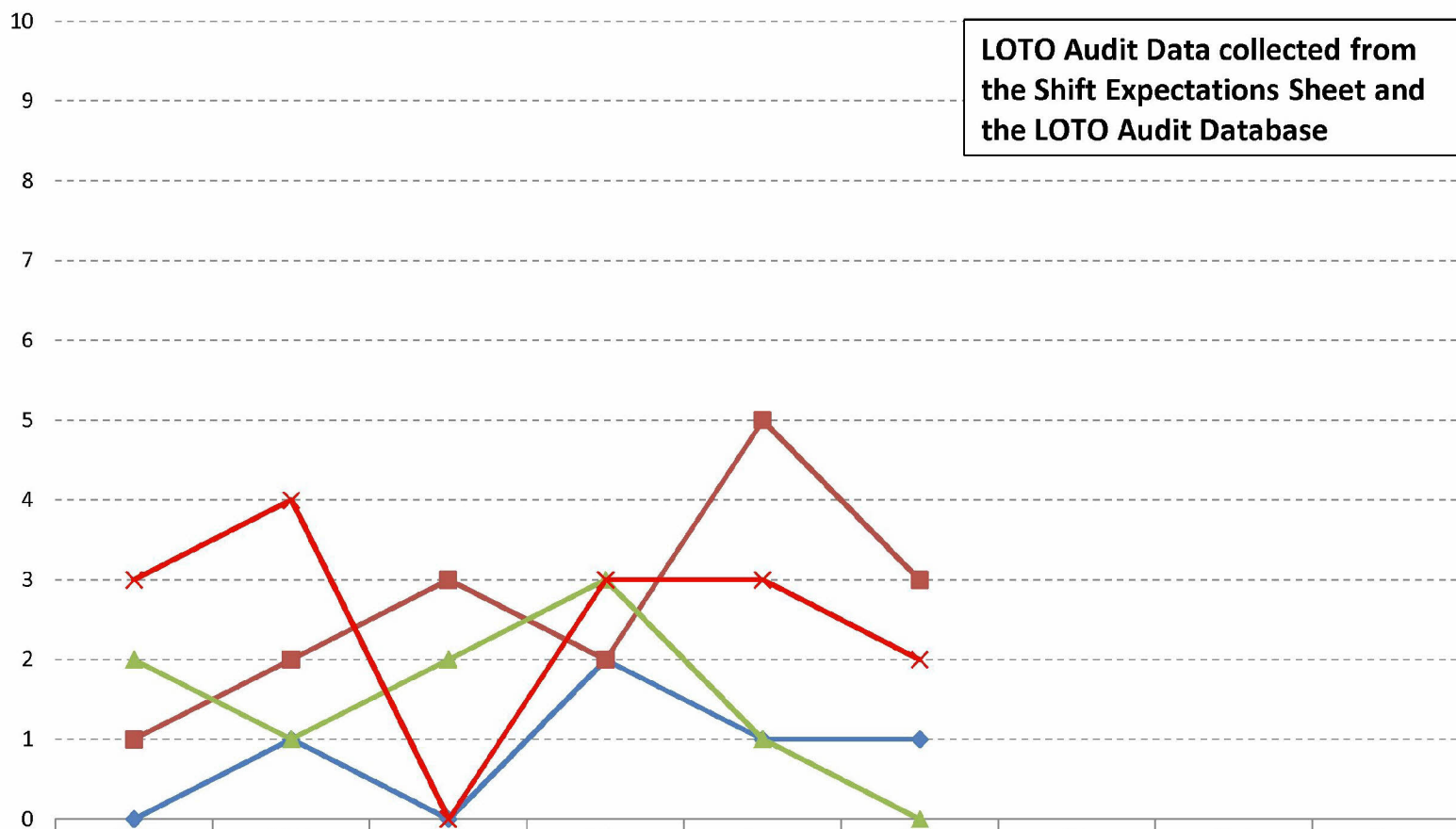
A Crew B Crew C Crew D Crew



LOTO Audits: Blending/Shipping

LOTO Audit Data collected from
the Shift Expectations Sheet and
the LOTO Audit Database

of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	0	1	0	2	1	1			
B Crew	1	2	3	2	5	3			
C Crew	2	1	2	3	1	0			
D Crew	3	4	0	3	3	2			

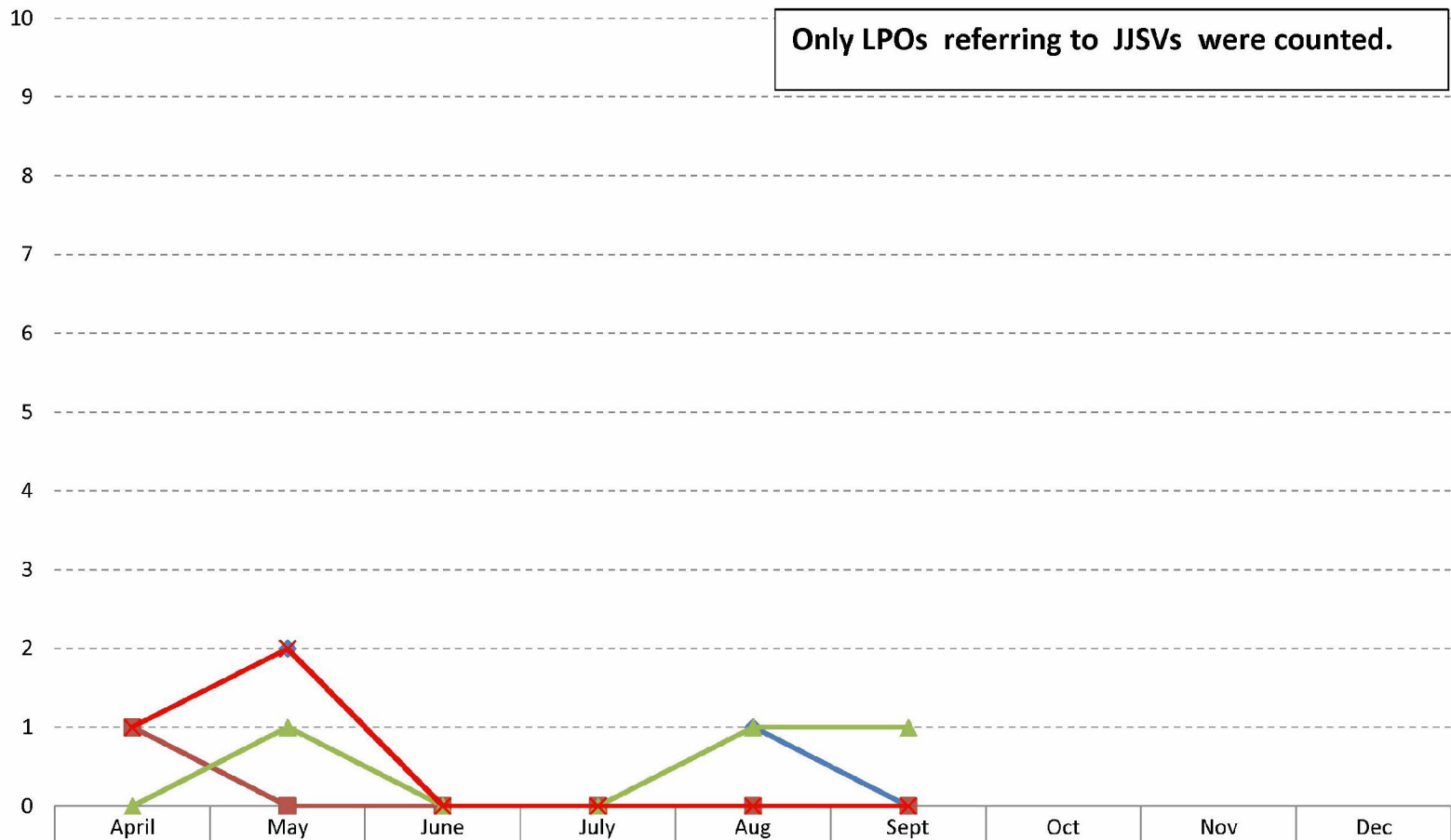
A Crew B Crew C Crew D Crew



JJSV/LOTO LPOs: Blending/Shipping

Only LPOs referring to JJSVs were counted.

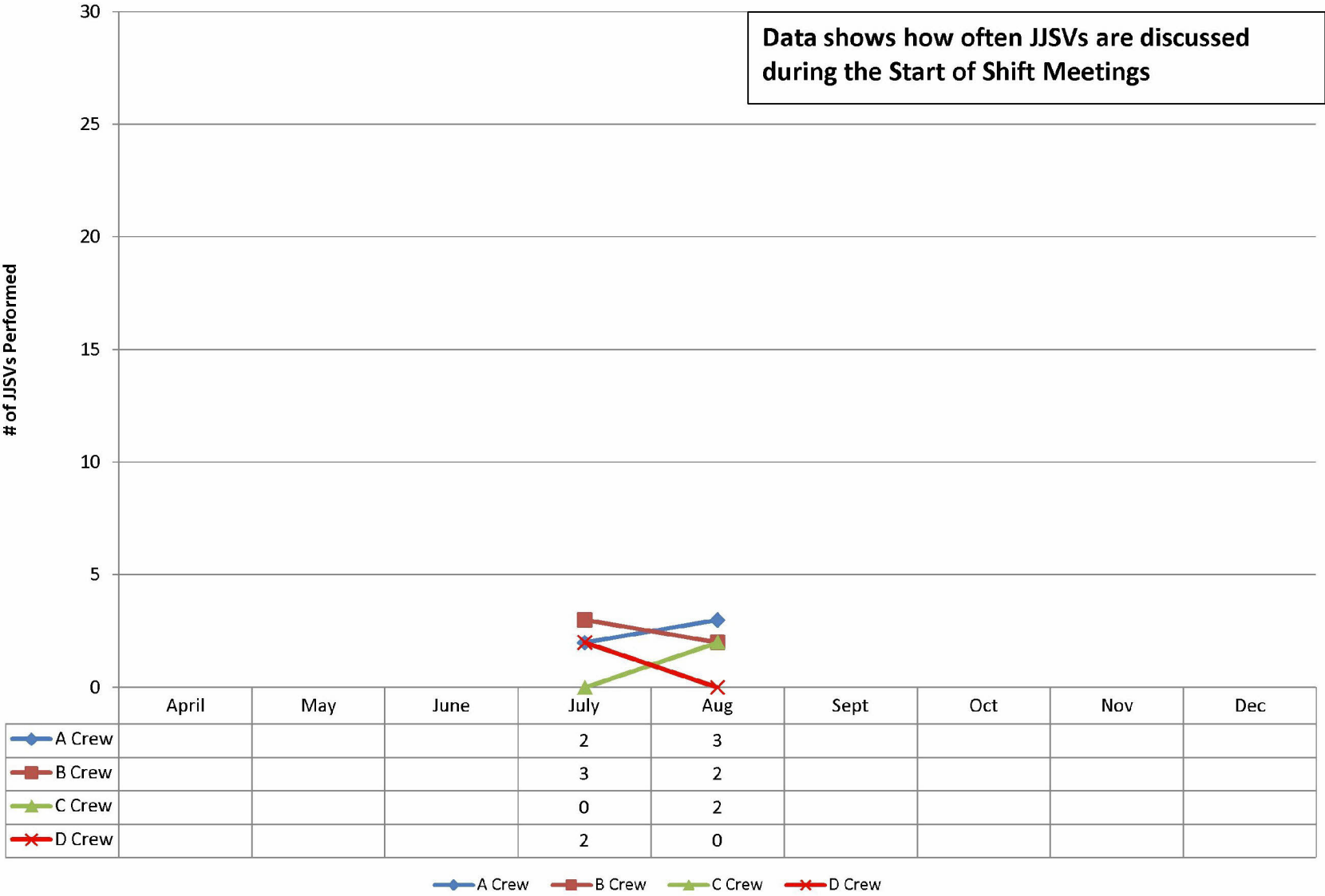
Of JJSV LPOs Completed



A Crew	1	2	0	0	1	0			
B Crew	1	0	0	0	0	0			
C Crew	0	1	0	0	1	1			
D Crew	1	2	0	0	0	0			

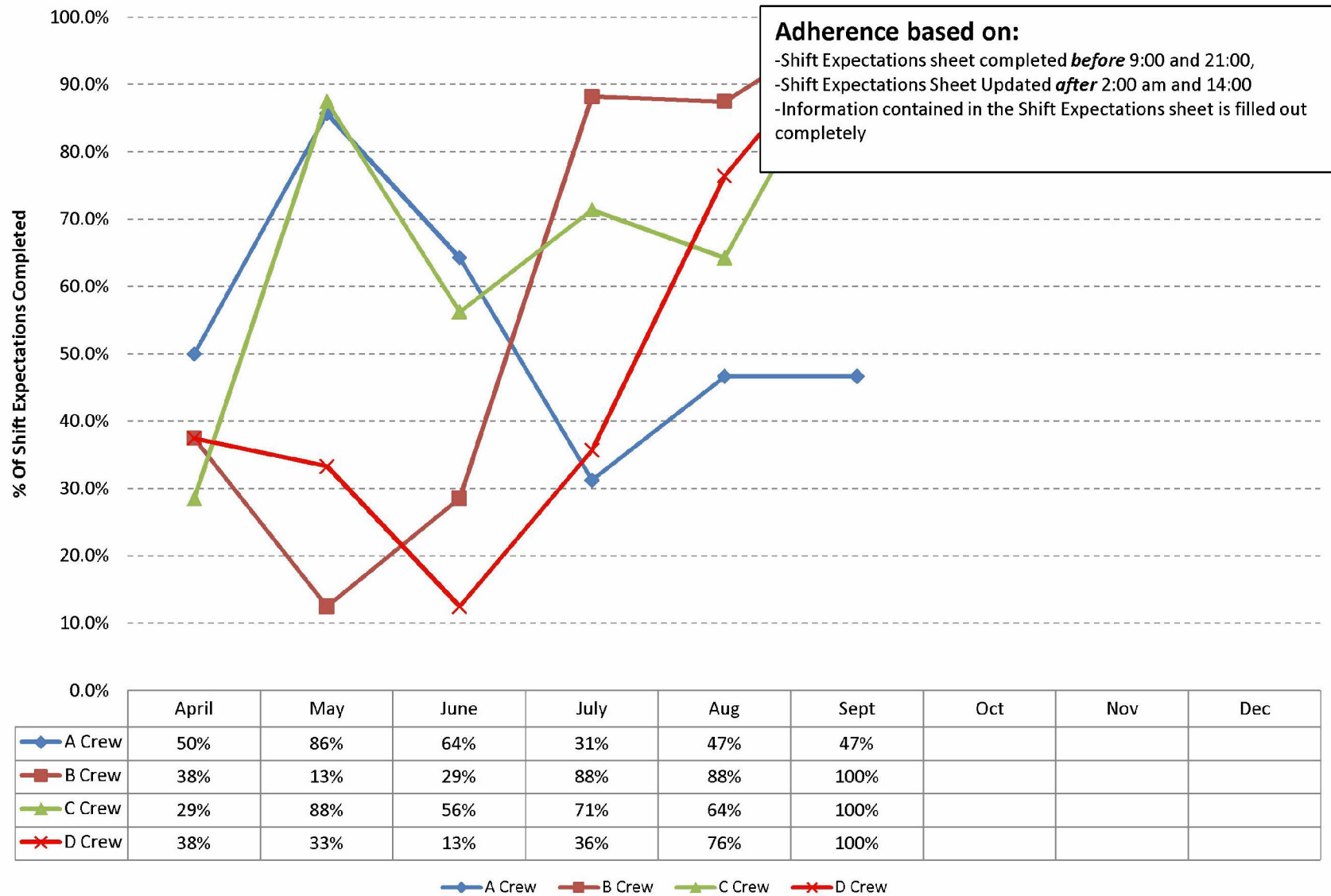
A Crew B Crew C Crew D Crew

JJSVs Discussed During Start of Shift Meeting: B&S





Crew Management: D&R

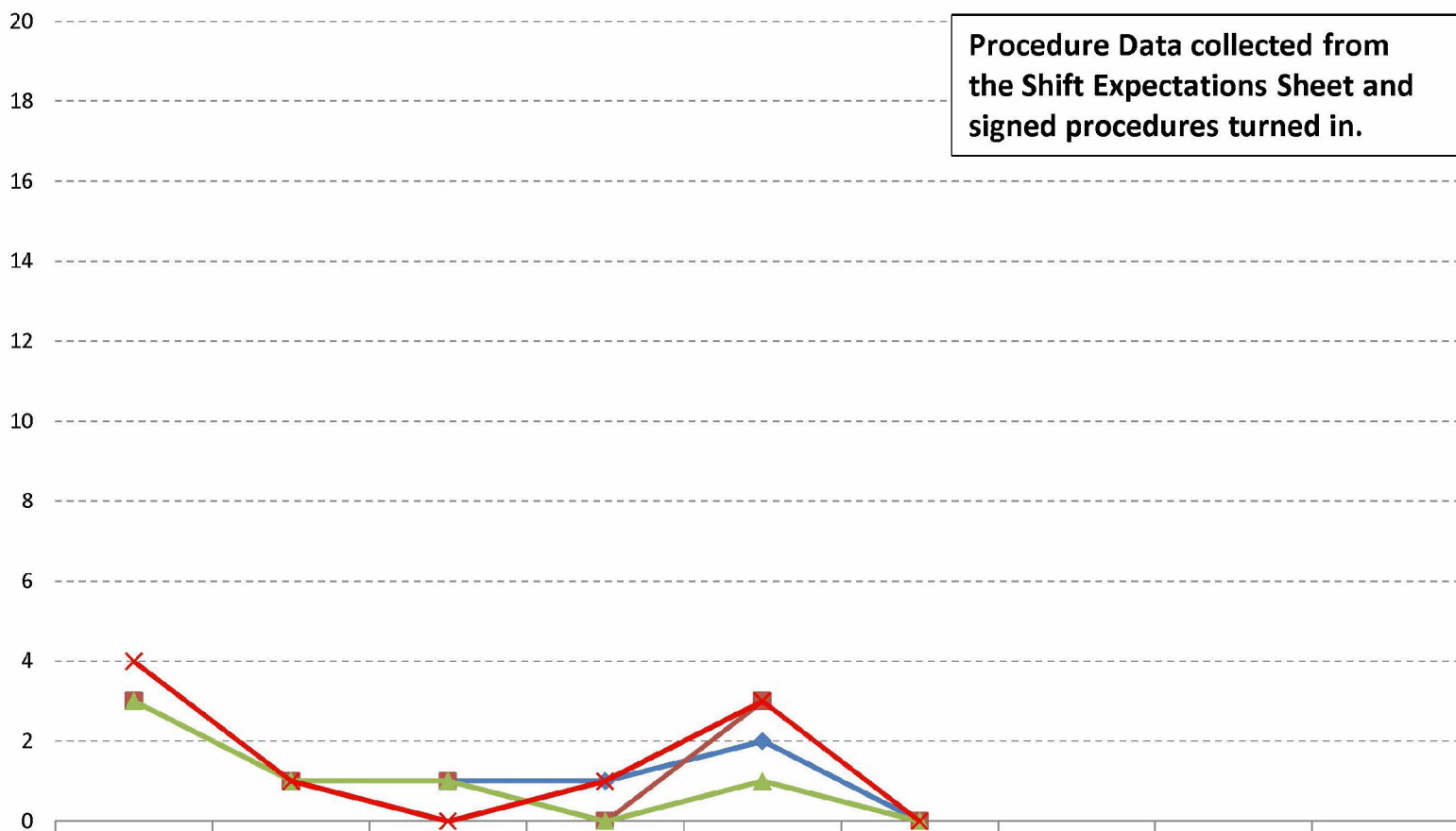




Procedures Used: D&R

Procedure Data collected from the Shift Expectations Sheet and signed procedures turned in.

Of Procedures Used



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	3	1	1	1	2	0			
B Crew	3	1	1	0	3	0			
C Crew	3	1	1	0	1	0			
D Crew	4	1	0	1	3	0			

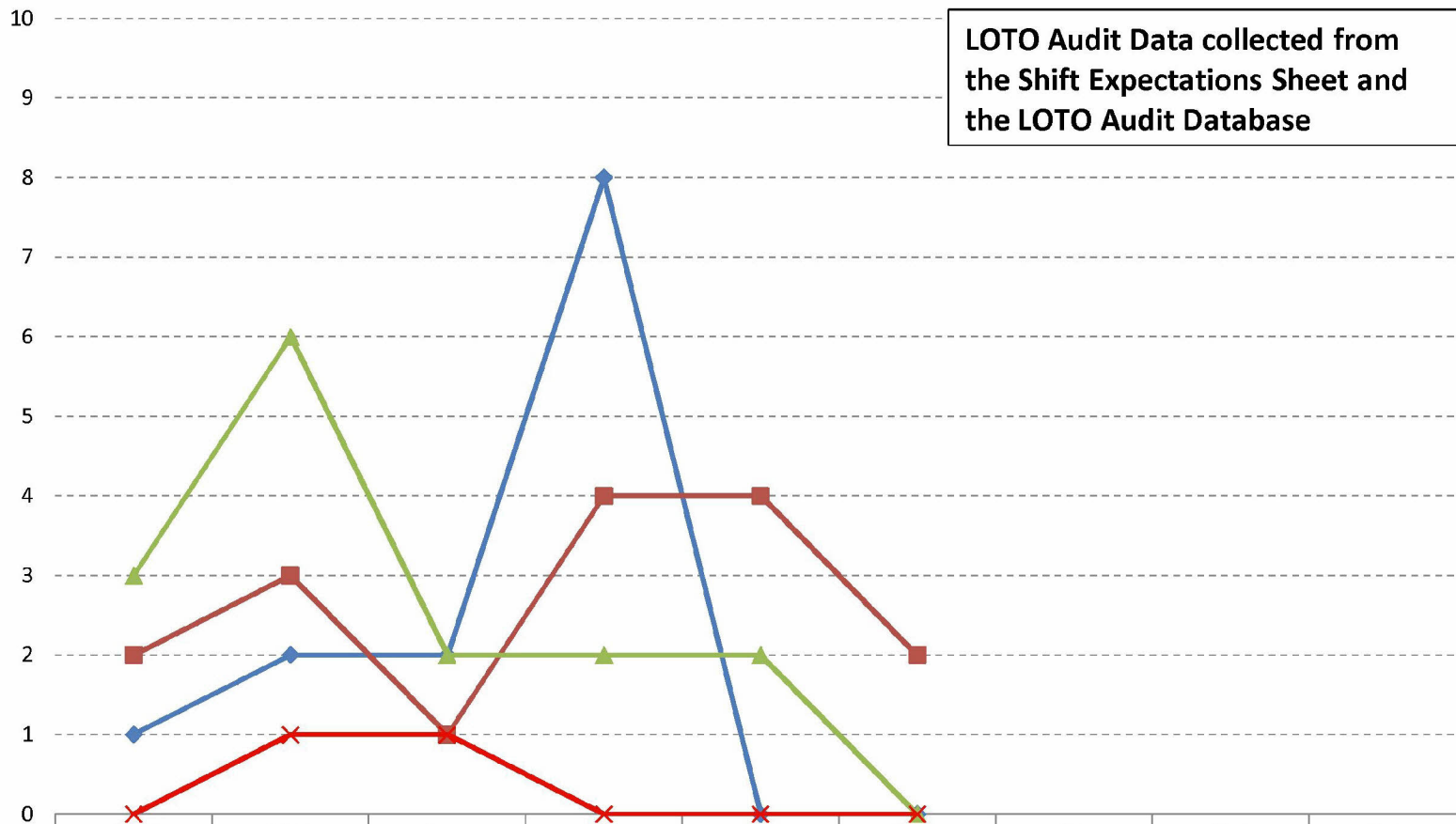
A Crew B Crew C Crew D Crew



LOTO Audits:D&R

LOTO Audit Data collected from the Shift Expectations Sheet and the LOTO Audit Database

Of LOTO Audits Completed



	April	May	June	July	Aug	Sept	Oct	Nov	Dec
A Crew	1	2	2	8	0	0			
B Crew	2	3	1	4	4	2			
C Crew	3	6	2	2	2	0			
D Crew	0	1	1	0	0	0			

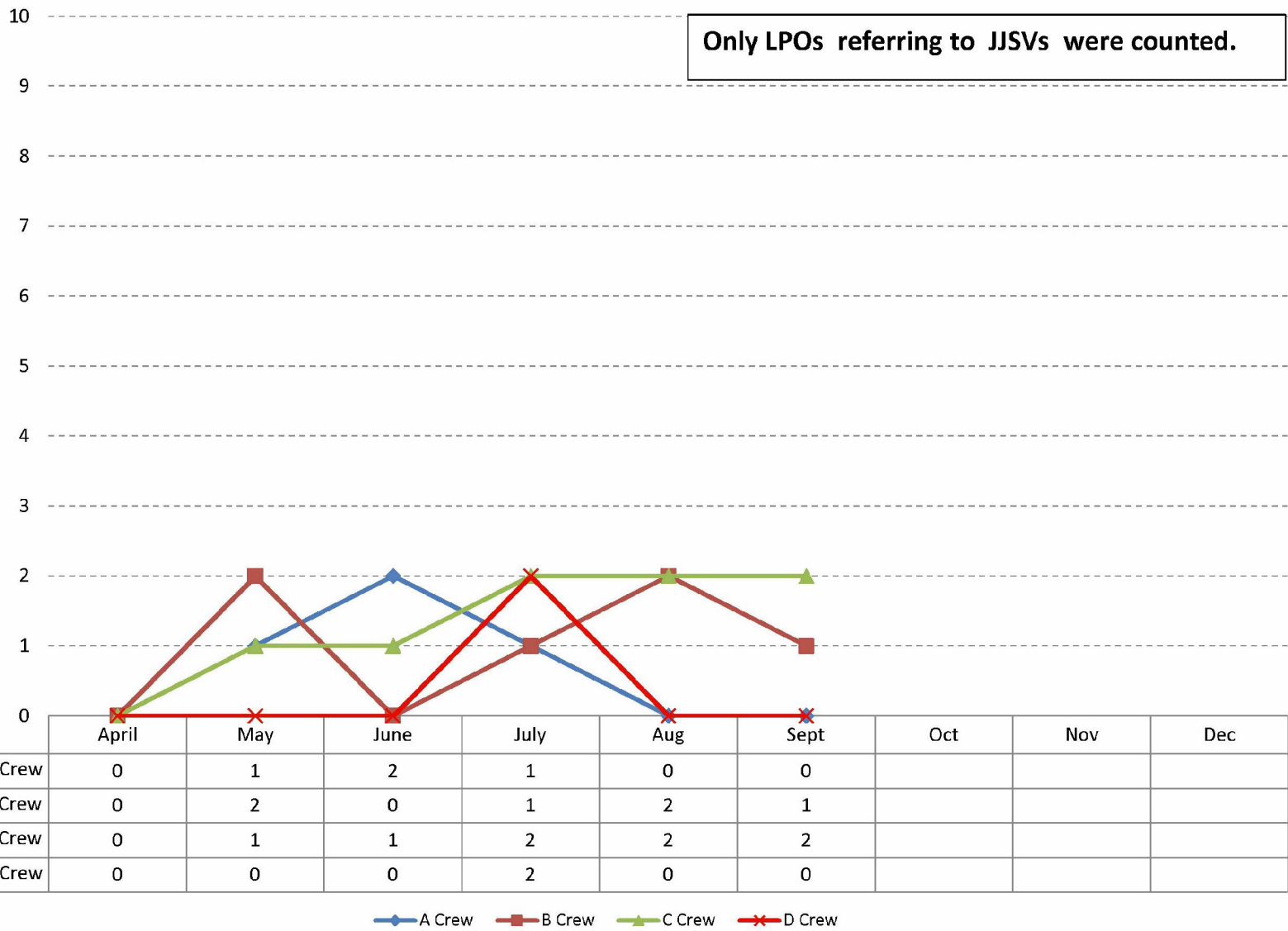
—◆— A Crew —■— B Crew —▲— C Crew —×— D Crew



JJSV/LOTO LPOs: D&R

Only LPOs referring to JJSVs were counted.

Of JJSV LPOs Completed

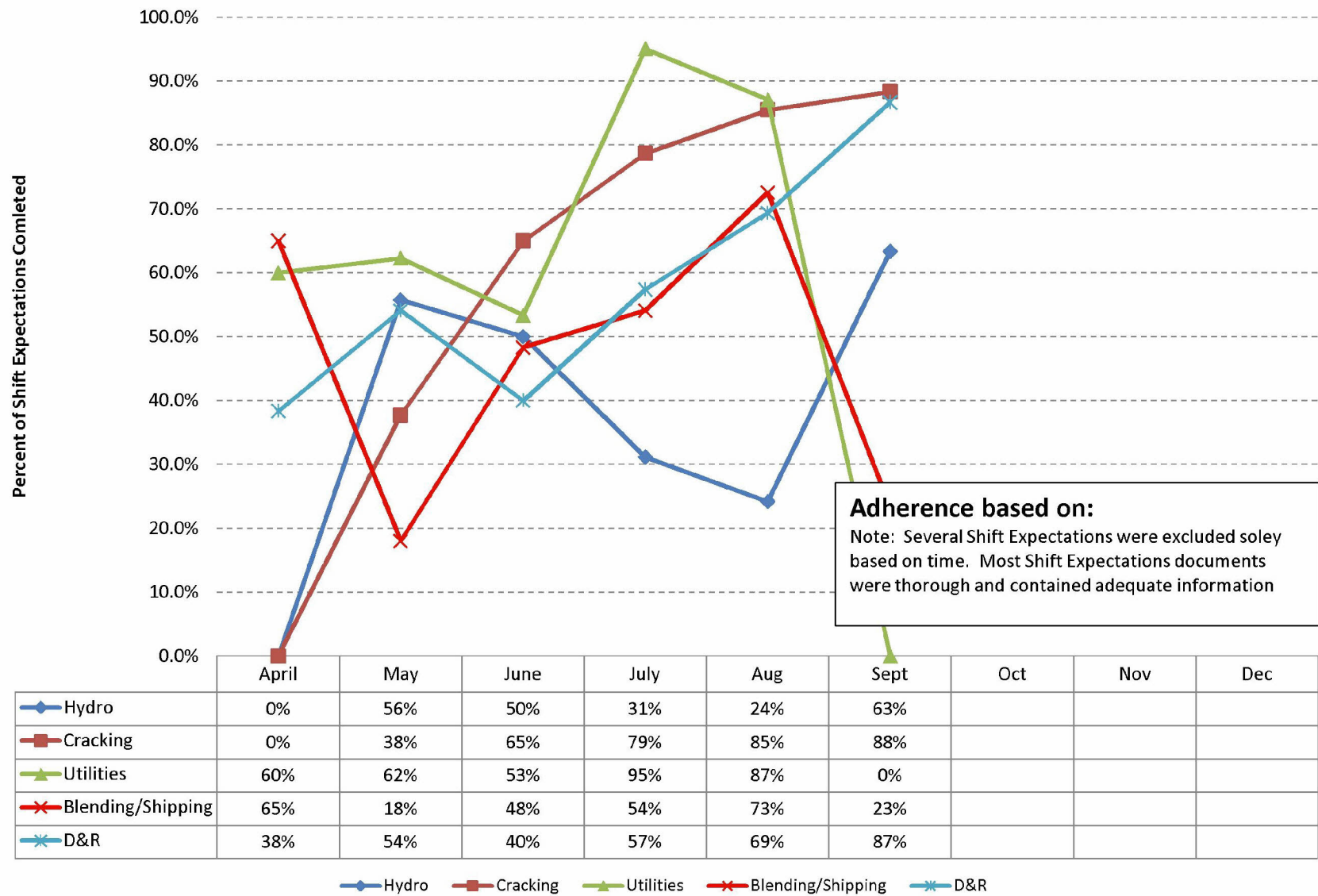


JJSVs Discussed During Start of Shift Meeting: D&R



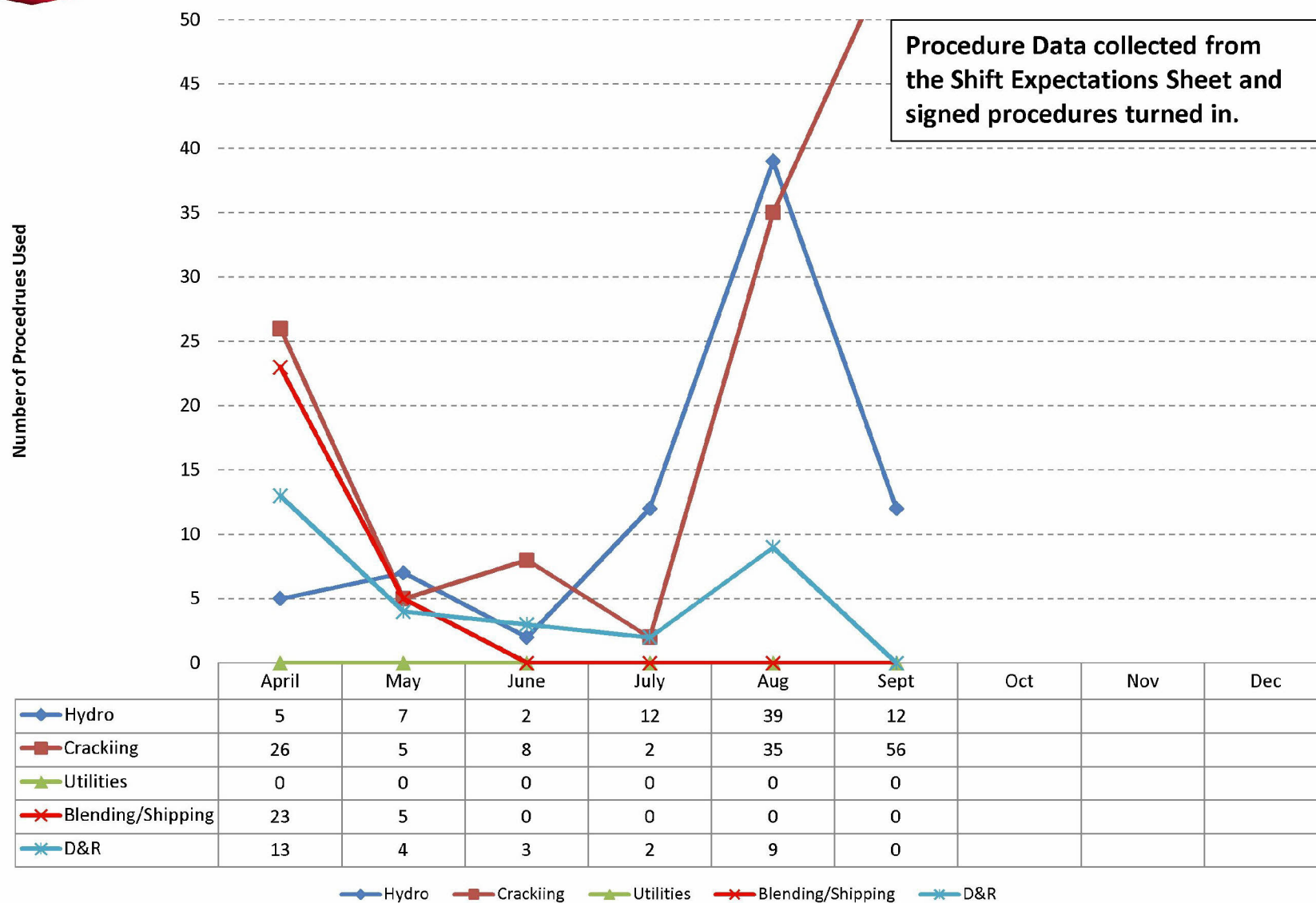


Crew Management: Refinery-Wide





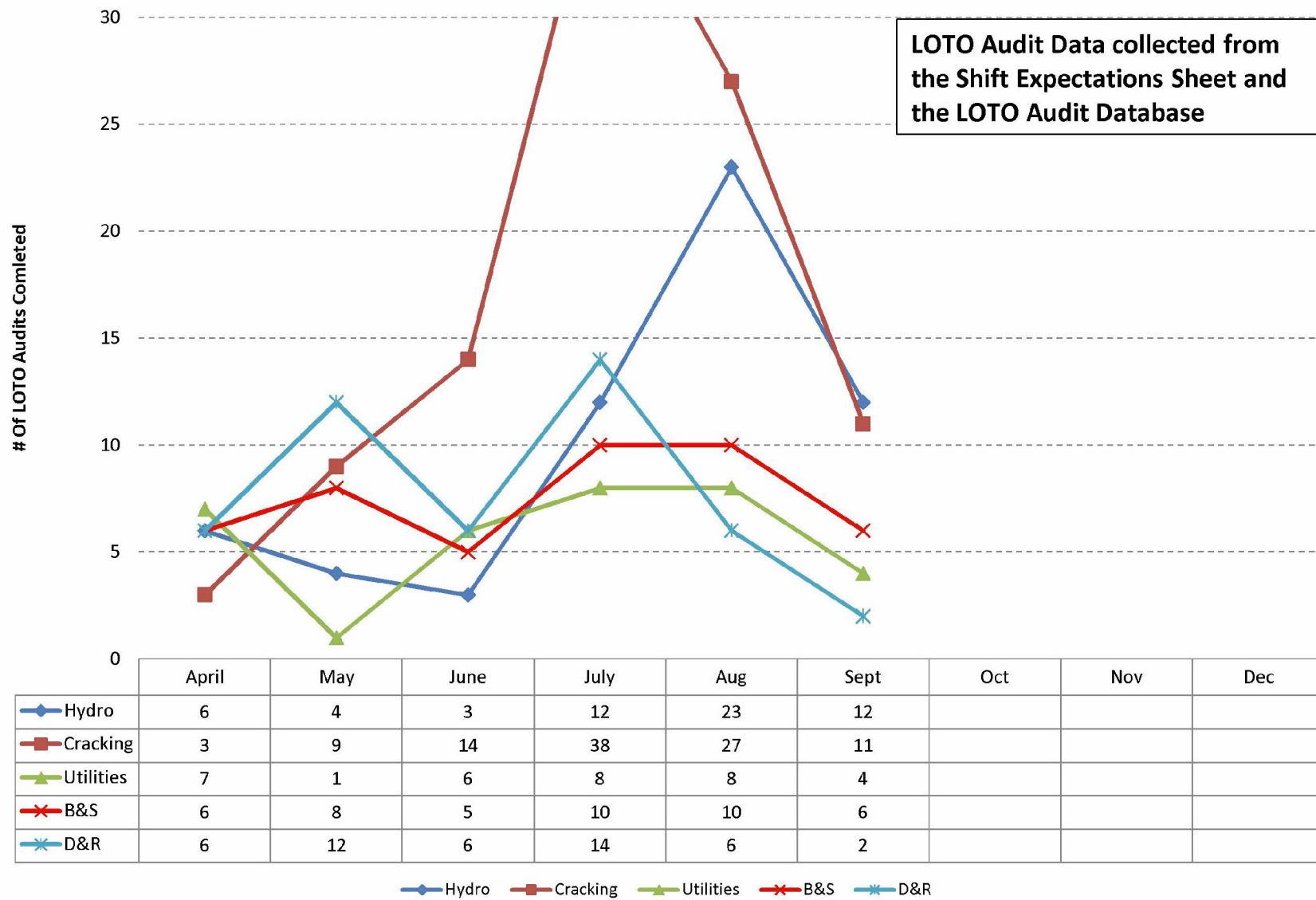
Procedure Usage: ABU Comparison





LOTO Audits: Refinery Wide

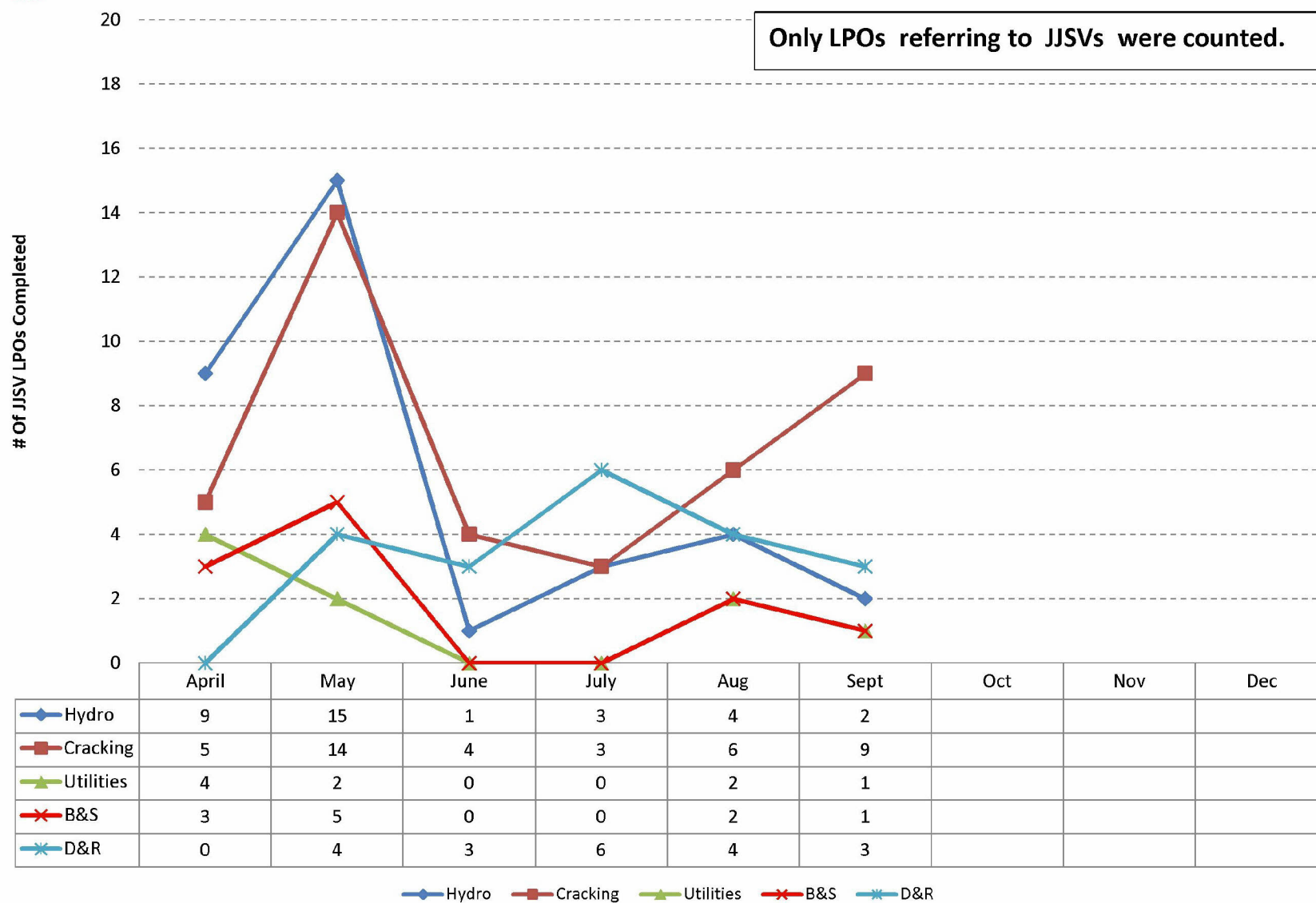
LOTO Audit Data collected from the Shift Expectations Sheet and the LOTO Audit Database





JJSV/LOTO LPOs: Refinery Wide

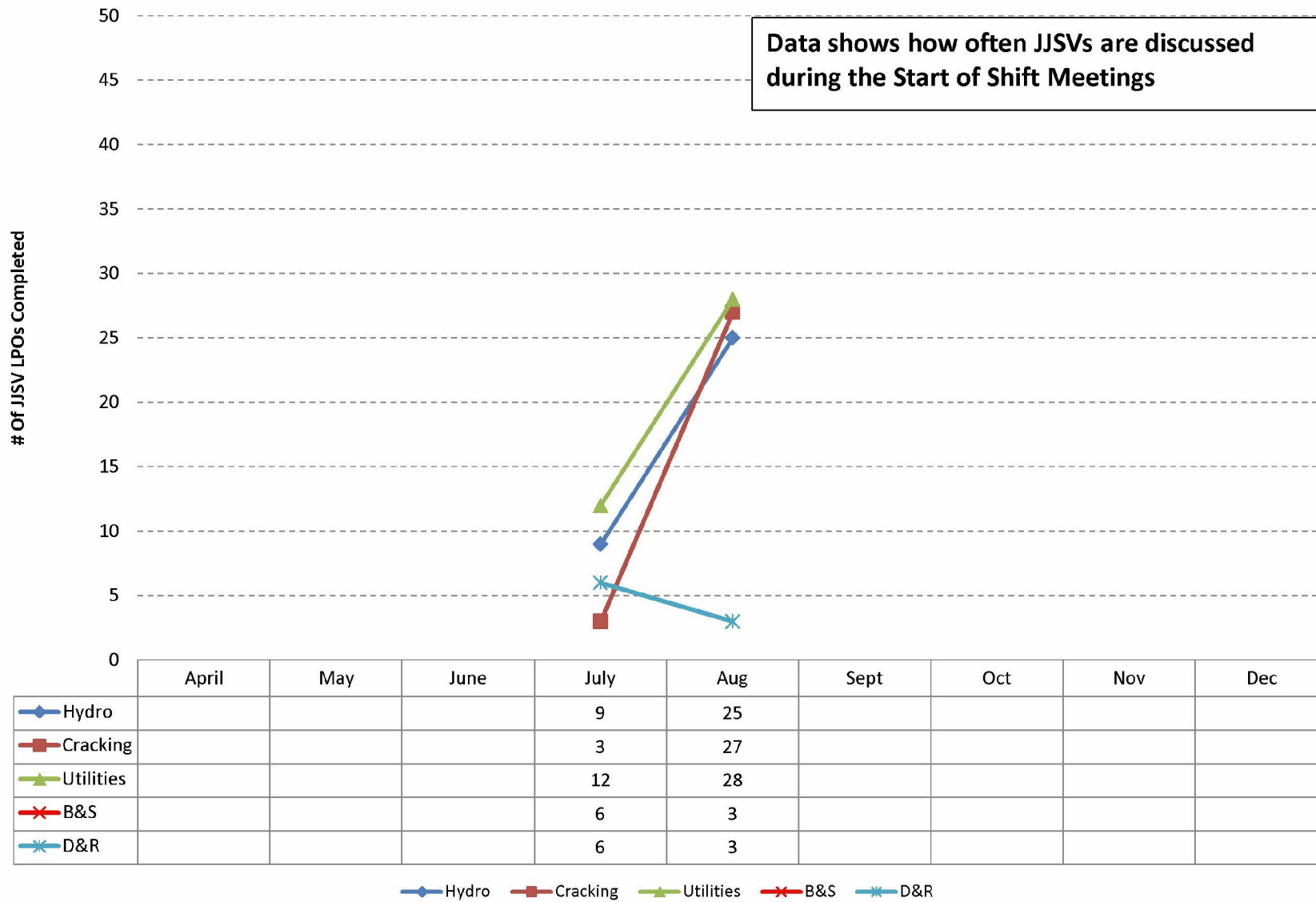
Only LPOs referring to JJSVs were counted.





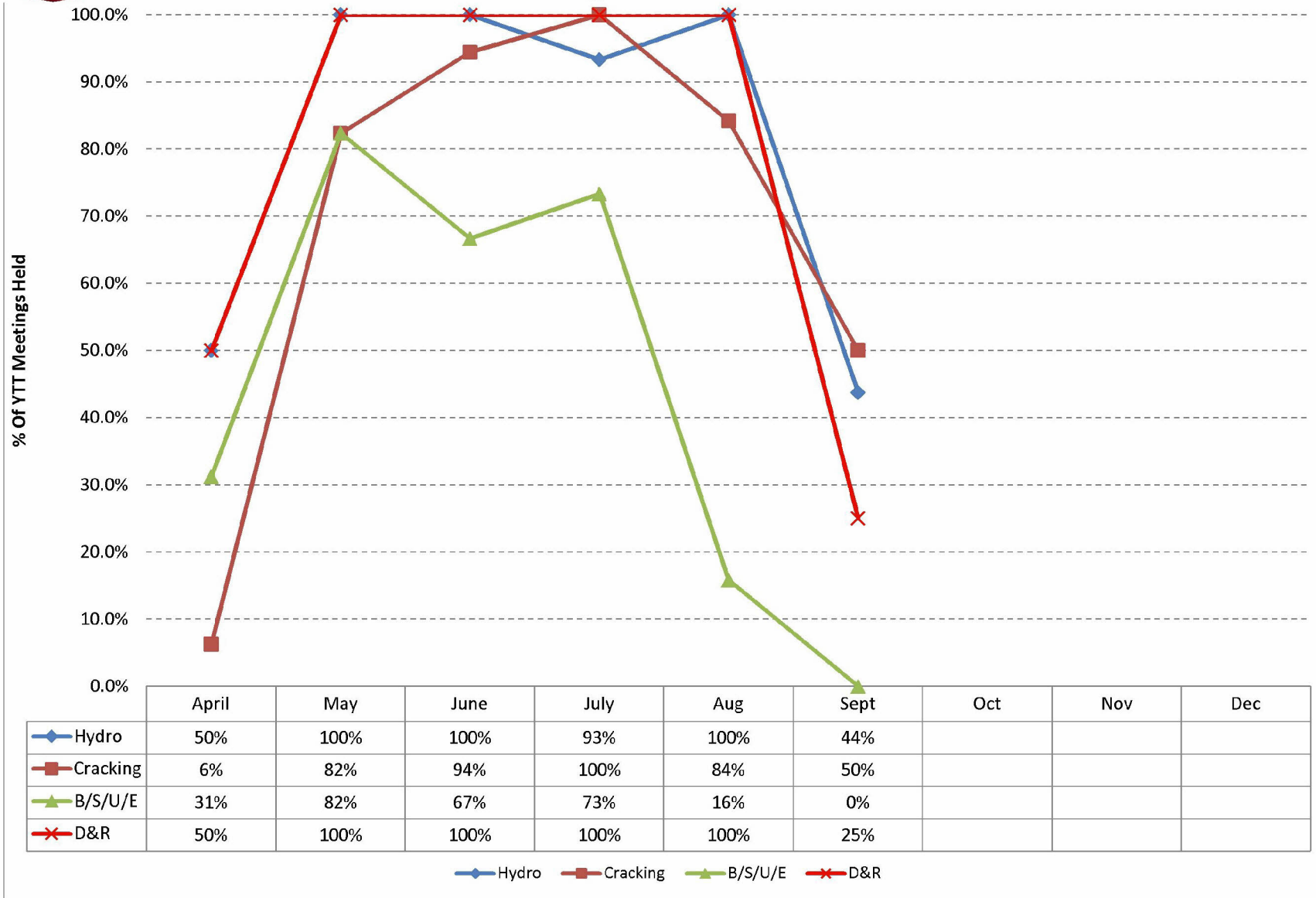
JJSVs Discussed During Start of Shift Meeting: Refinery Wide

Data shows how often JJSVs are discussed during the Start of Shift Meetings





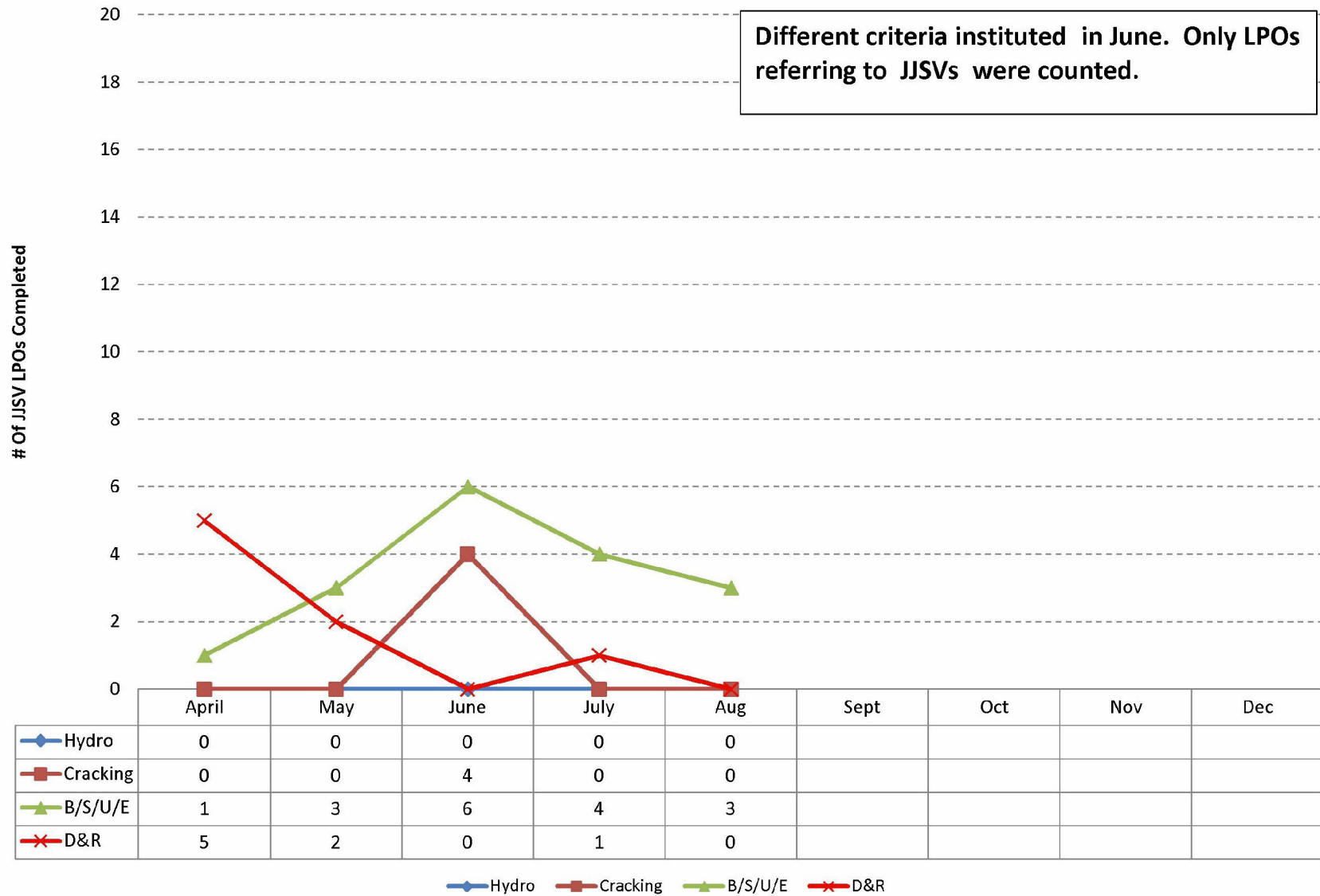
YTT Meetings: Zone Maintenance





JJSV/LOTO LPOs: Zone Maintenance

Different criteria instituted in June. Only LPOs referring to JJSVs were counted.

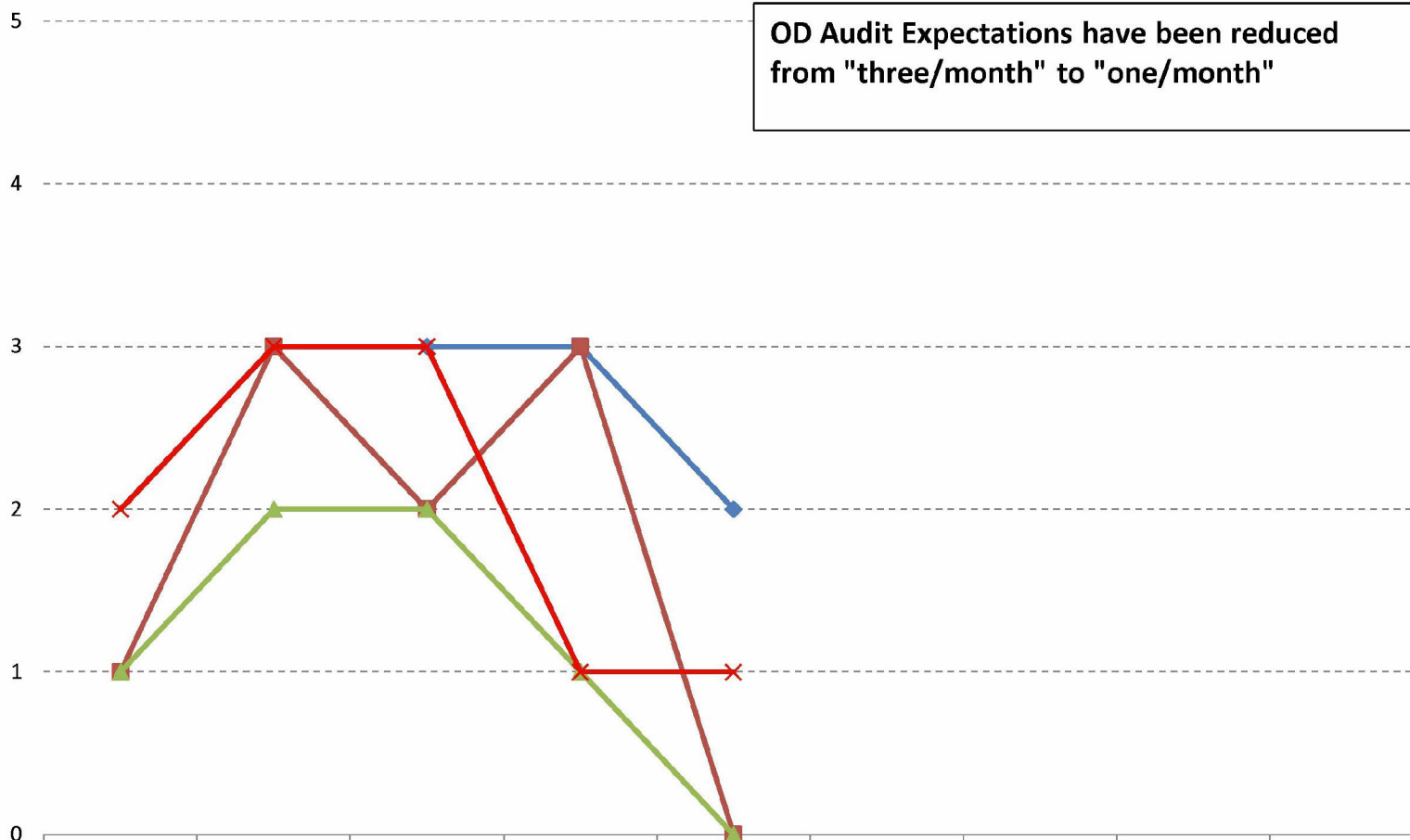




Operational Discipline Audits: Zone Maintenance

OD Audit Expectations have been reduced from "three/month" to "one/month"

% Of Target Audits Completed

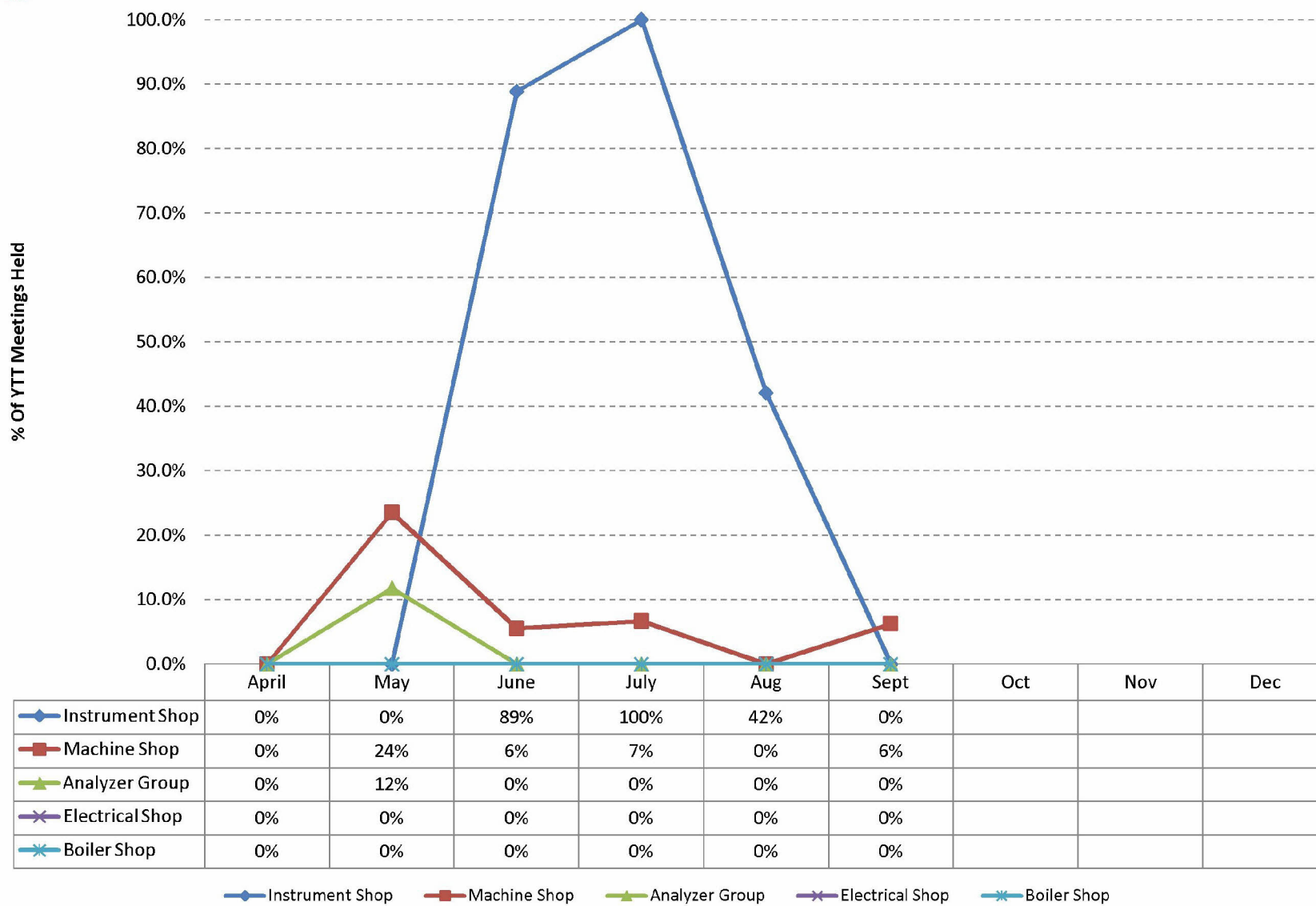


Hydro	1	3	3	3	2				
Cracking	1	3	2	3	0				
B/S/U/E	1	2	2	1	0				
D&R	2	3	3	1	1				

Hydro Cracking B/S/U/E D&R



YTT Meetings: Shops

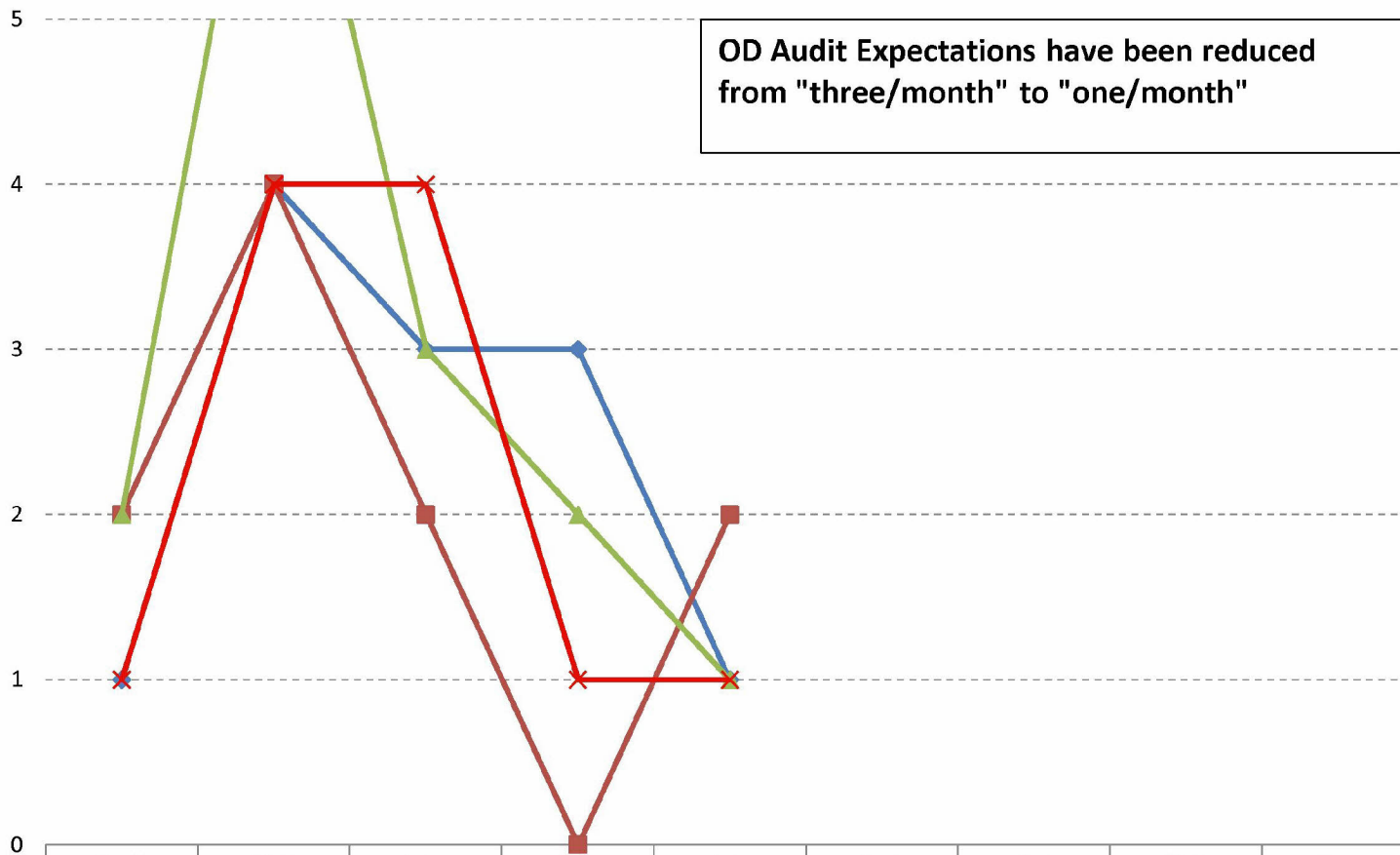




OD Audits: Shops

OD Audit Expectations have been reduced from "three/month" to "one/month"

Of OD Audits Completed

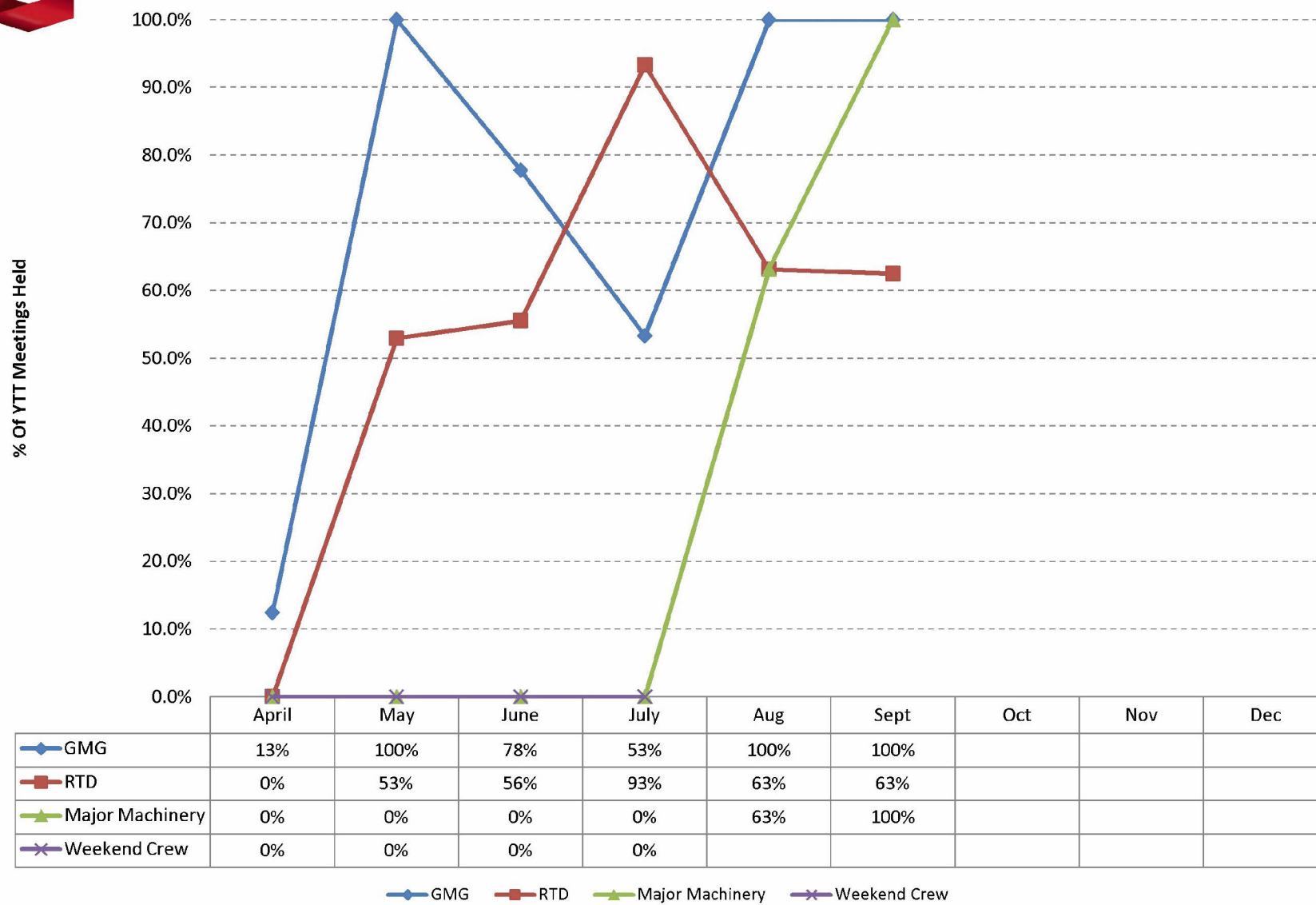


	April	May	June	July	Aug	Sept	Oct	Nov	Dec
Instrument Shop	1	4	3	3	1				
Machine Shops	2	4	2	0	2				
Analyzer Group	2	7	3	2	1				
Electrical Shop	1	4	4	1	1				

Instrument Shop Machine Shops Analyzer Group Electrical Shop



YTT Meetings: Support Groups

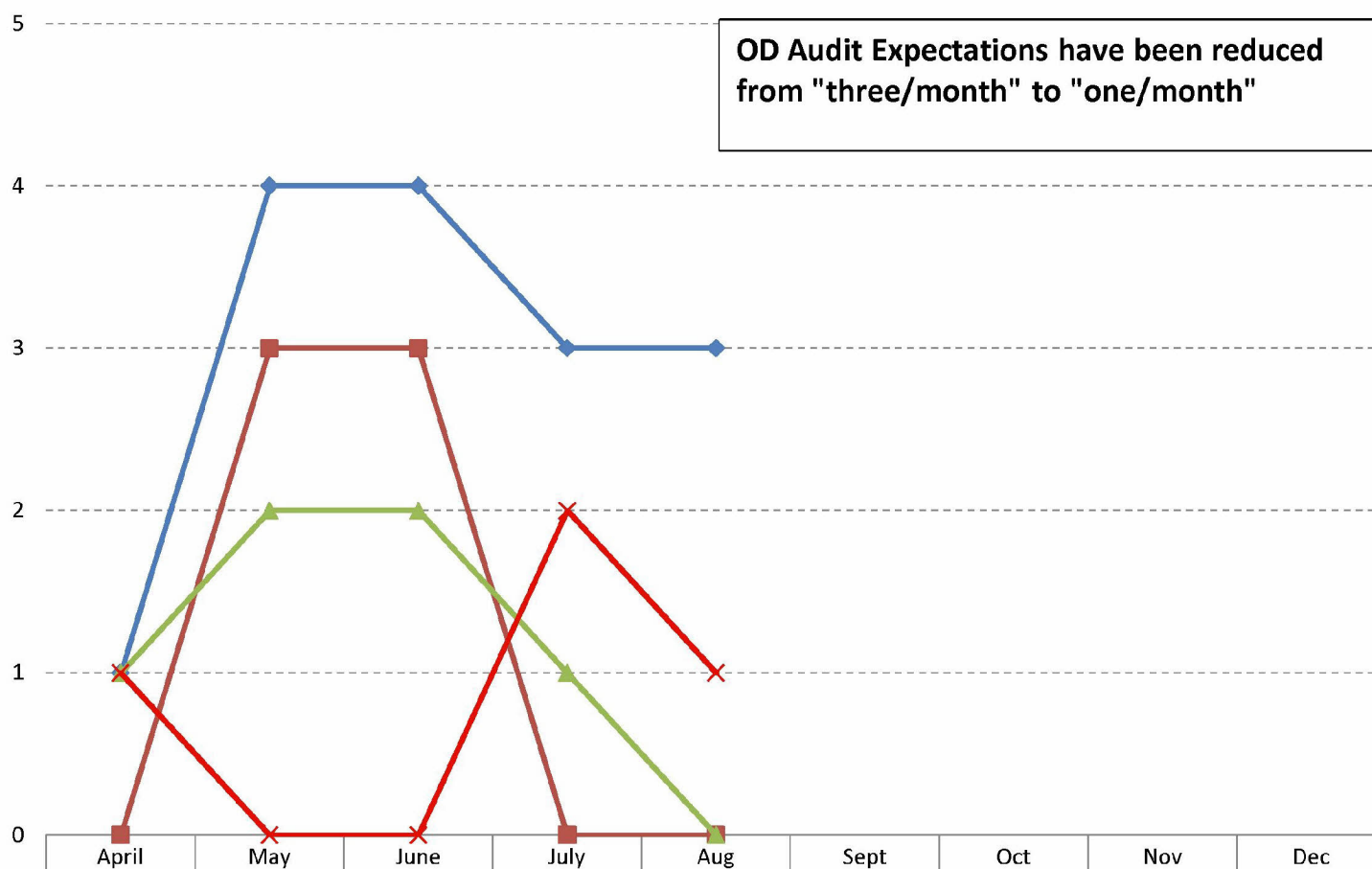




Operational Discipline Audits: Support Groups

OD Audit Expectations have been reduced from "three/month" to "one/month"

of Operational Audits Completed



GMG	1	4	4	3	3				
RTD	0	3	3	0	0				
Major Machinery	1	2	2	1	0				
Weekend Crew	1	0	0	2	1				

GMG RTD Major Machinery Weekend Crew

		Hydro					Cracking					Utilities					Blending/Shipping					D&R					
		A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total	A	B	C	D	Total	Refinery
Shifts Worked																											
	April	14	16	14	16	60	14	16	14	16	60	14	16	14	16	60	14	16	14	16	60	14	16	14	16	60	300
	May	14	16	16	15	61	14	16	16	15	61	14	16	16	15	61	14	16	16	15	61	14	16	16	15	61	305
	June	14	14	16	16	60	14	14	16	16	60	14	14	16	16	60	14	14	16	16	60	14	14	16	16	60	300
	July	16	17	14	14	61	16	17	14	14	61	16	17	14	14	61	16	17	14	14	61	16	17	14	14	61	305
	Aug	15	16	14	17	62	15	16	14	17	62	15	16	14	17	62	15	16	14	17	62	15	16	14	17	62	310
	Sept	15	15	15	15	60	15	15	15	15	60	15	15	15	15	60	15	15	15	15	60	15	15	15	15	60	300
	Oct					0					0					0					0					0	0
	Nov					0					0					0					0					0	0
	Dec					0					0					0					0					0	0
Meetings Held																											
	April					0					0	11	9	10	6	36	14	11	13	1	39	7	6	4	6	23	98
	May	11	10	3	10	34	10	6	5	2	23	11	6	8	13	38	2	3	1	5	11	12	2	14	5	33	139
	June	8	11	4	7	30	11	4	15	9	39	10	3	11	8	32	9	12	1	7	29	9	4	9	2	24	154
	July	4	13	0	2	19	15	10	11	12	48	15	15	14	14	58	9	12	4	8	33	5	15	10	5	35	193
	Aug	2	9	4	0	15	15	16	8	14	53	13	12	12	17	54	14	15	2	14	45	7	14	9	13	43	210
	Sept	10	6	10	12	38	15	15	11	12	53	0	0	0	0	0	0	0	2	12	14	7	15	15	15	52	157
	Oct					0					0					0					0					0	0
	Nov					0					0					0					0					0	0
	Dec					0					0					0					0					0	0
Percentage																											
	April	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	79%	56%	71%	38%	60%	100%	69%	93%	6%	65%	50%	38%	29%	38%	38%	33%
	May	79%	63%	19%	67%	56%	71%	38%	31%	13%	38%	79%	38%	50%	87%	62%	14%	19%	6%	33%	18%	86%	13%	88%	33%	54%	46%
	June	57%	79%	25%	44%	50%	79%	29%	94%	56%	65%	71%	21%	69%	50%	53%	64%	86%	6%	44%	48%	64%	29%	56%	13%	40%	51%
	July	25%	76%	0%	14%	31%	94%	59%	79%	86%	79%	94%	88%	100%	100%	95%	56%	71%	29%	57%	54%	31%	88%	71%	36%	57%	63%
	Aug	13%	56%	29%	0%	24%	100%	100%	57%	82%	85%	87%	75%	86%	100%	87%	93%	94%	14%	82%	73%	47%	88%	64%	76%	69%	68%
	Sept	67%	40%	67%	80%	63%	100%	100%	73%	80%	88%	0%	0%	0%	0%	0%	0%	0%	13%	80%	23%	47%	100%	100%	100%	87%	52%
	Oct																										
	Nov																										
	Dec																										
Procedures Used																											
	April	0	0	3	2	5	5	4	10	7	26	0	0	0	0	0	10	5	7	1	23	3	3	3	4	13	67
	May	2	2	2	1	7	2	2	0	1	5	0	0	0	0	0	1	3	0	1	5	1	1	1	1	4	21
	June	2	0	0	0	2	2	2	2	2	8	0	0	0	0	0	0	0	0	0	0	1	1	1	0	3	13
	July	4	4	2	2	12	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	1	0	0	1	2	16
	Aug	10	13	15	1	39	14	10	4	7	35	0	0	0	0	0	0	0	0	0	0	2	3	1	3	9	83
	Sept	3	3	3	3	12	14	14	14	14	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	68
	Oct																									0	
	Nov																									0	
	Dec																									0	
LOTO Audits																											0
	April	1	1	2	2	6	0	0	0	3	3	3	1	1	2	7	0	1	2	3	6	1	2	3	0	6	28
	May	1	1	1	1	4	2	6	1	0	9	0	0	1	0	1	1	2	1	4	8	2	3	6	1	12	34
	June	1	1	1	0	3	0	1	4	9	14	3	0	2	1	6	0	3	2	0	5	2	1	2	1	6	34
	July	3	3	3	3	12	5	20	5	8	38	2	1	0	5	8	2	2	3	3	10	8	4	2	0	14	82
	Aug	9	2	9	3	23	3	12	4	8	27	1	3	1	3	8	1	5	1	3	10	0	4	2	0	6	74
	Sept	3	3	3	3	12	0	11	0	0	11	0	0	2	2	4	1	3	0	2	6	0	2	0	0	2	35
	Oct																									0	
	Nov																									0	
	Dec																									0	
JJSV LPOs Total																											
	April	3	1	2	3	9	2	1	0	2	5	0	3	0	1	4	1	1	0	1	3	0	0	0	0	0	#REF!
	May	3	6	1	5	15	6	3	1	4	14	0	1	0	1	2	2	0	1	2	5	1	2	1	0	4	#REF!
	June	0	1	0	0	1	3	0	0	1	4	0	0	0	0	0	0	0	0	0	0	2	0	1	0	3	#REF!
	July	0	1	0	2	3	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	1	1	2	2	6	#REF!
	Aug	1	0	0	3	4	3	0	0	3	6	0	0	2	0	2	1	0	1	0	2	0	2	2	0	4	#REF!
	Sept	0	0	0	2	2	1	6	0	2	9	0	1	0	0	1	0	0	1	0	1	0	1	2	0	3	#REF!

	Oct																										#REF!
	Nov																										#REF!
	Dec																										#REF!
JJSV's Performed																											
	April																										#REF!
	May																										#REF!
	June																										#REF!
	July	3	0	3	3	9	0	0	0	3	3	2	3	3	4	12	2	3	0	2	7	4	2	0	0	6	#REF!
	Aug	7	1	16	1	25	4	10	10	3	27	3	4	12	9	28	3	2	2	0	7	0	2	1	0	3	#REF!
	Sept																										#REF!
	Oct																										#REF!
	Nov																										#REF!
	Dec																										#REF!

Maintenance		Hydro				Cracking				B/S/U/E				D&R											
JJSV LPOs Total		I/E	M	P/B	Total	I/E	M	P/B	Total	I/E	M	P/B	Total	I/E	M	P/B	Total								
	April				0				0	1			1	2	1	2	5								
	May				0				0	1		2	3		1	1	2								
	June				0	2		2	4	2	2	2	6				0			1	2				
	July	0	0	0	0	0	0	0	0	2	1	1	4	0	1	0	1				1				
	Aug	0	0	0	0	0	0	0	0	2	0	1	3	0	0	0	0								
	Sept																								
	Oct																								
	Nov																								
	Dec																								
Shifts Worked																									
	April				16				16				16				16	16	16	16	16	16	16	16	16
	May				17				17				17				17	17	17	17	17	17	17	17	17
	June				18				18				18				18	18	18	18	18	18	18	18	18
	July				15				15				15				15	15	15	15	15	15	15	15	15
	Aug				19				19				19				19	19	19	19	19	19	19	19	19
	Sept				16				16				16				16	16	16	16	16	16	16	16	16
	Oct																								
	Nov																								
	Dec																								
OD Audits																									
	April				1				1				1				2	1	2	2	1	1	1	0	1
	May				3				3				2				3	4	4	7	4	0	4	3	2
	June				3				2				2				3	3	2	3	4	0	4	3	2
	July				3				3				1				1	3	0	2	1	2	3	0	1
	Aug				2				0				0				1	1	2	1	1	1	3	0	0
	Sept																								
	Oct																								
	Nov																								
	Dec																								
Meetings Held																									
	April				8				1				5				8				0	2			
	May				17				14				14				17		4	2	0	17	9		
	June				18				17				12				18	16	1			14	10		
	July				14				15				11				15	15	1		0	8	14	0	
	Aug				19				16				3				19	8	0			19	12	12	
	Sept				7				8				0				4	0	1	0	0	0	16	10	16
	Oct				0				0				0				0								
	Nov				0				0				0				0								
	Dec				0				0				0				0								
Percentage																									
	April	#DIV/0!	#DIV/0!	#DIV/0!	50%	#DIV/0!	#DIV/0!	#DIV/0!	6%	#DIV/0!	#DIV/0!	#DIV/0!	31%	#DIV/0!	#DIV/0!	#DIV/0!	50%	0%	0%	0%	0%	#DIV/0!	13%	0%	0%
	May				100%				82%				82%				100%	0%	24%	12%	0%	#DIV/0!	100%	53%	0%
	June				100%				94%				67%				100%	89%	6%	0%	0%	#DIV/0!	78%	56%	0%
	July				93%				100%				73%				100%	100%	7%	0%	0%	#DIV/0!	53%	93%	0%
	Aug				100%				84%				16%				100%	42%	0%	0%	0%	#DIV/0!	100%	63%	63%
	Sept				44%				50%				0%				25%	0%	6%	0%	0%	#DIV/0!	100%	63%	100%
	Oct																								
	Nov																								
	Dec																								

